



# **PORTABLE ELECTRIC TOOLS**

**UNIVERSAL TYPE**

**INDEPENDENT PNEUMATIC TOOL COMPANY**



# Thor

## INDEX

Abrasive Discs .....	23	Pneumatic Pad .....	47
Belt Sanders .....	45	Polishers .....	46
Bench Drill Stands .....	18	Polishing Accessories .....	47
Bench Grinders .....	45	Portable Nibbler .....	26
Buffers .....	46	Portable Grinders .....	43, 44
Carbon Removing Brushes .....	48	Portable Hammer .....	20
Centering Devices .....	18	Portable Saws .....	22
Chucks, Replacement .....	48	Post Drill Stands .....	18
Combination Screw Driver and Drill .....	37	Reamers .....	14, 15, 16, 17
Drills .....	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 37	Radial Arm .....	22
Drill Accessories .....	48	Right Angle Drills .....	3
Drill Stands .....	18	Right Angle Nut Setters .....	33, 34, 36
Eye Shields .....	47	Right Angle Screw Drivers .....	31, 33, 34
Grinders, Bench .....	45	Sanders .....	41, 42
Grinders, Portable .....	43, 44	Sander Attachments .....	47
Grinding Wheels .....	47	Saws, Hole .....	48
Hammer, Portable .....	20	Saws, Portable .....	22
Hammer Tools .....	21	Saw Blades .....	23
Hole Saws .....	48	Screw Drivers .....	31, 32, 33, 34, 36, 37
Nibbler .....	26	Screw Driver Attachments .....	30, 33, 35, 36
Nut Setters .....	33, 34, 36, 37, 38, 39	Tappers .....	29
Pilots, Self Centering .....	18	Wire Cup Brushes .....	47
		Wire Wheel Brushes .....	47

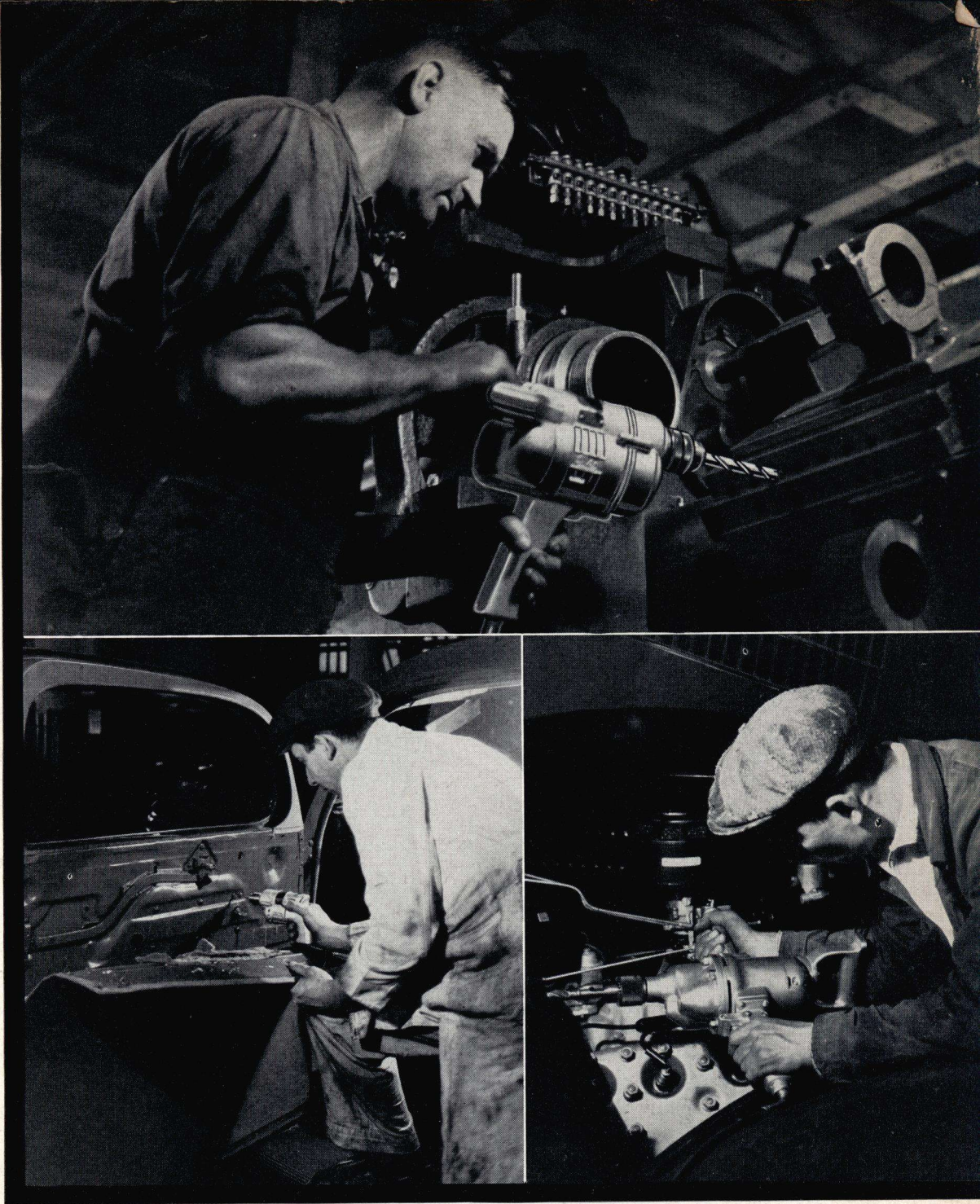
### PATRONIZE YOUR DISTRIBUTOR

Thor Portable Electric Tools are sold through electrical, automotive, mill supplies, plumbing and hardware distributors. This guarantees you quick, reliable service. Write for name of distributor nearest you.

### HIGH FREQUENCY TOOLS

Thor also manufactures a complete line of high frequency (180 cycle, 3 phase) electric tools. Write for catalog No. 60 which is devoted exclusively to Thor High Frequency Portable Electric Tools.





## **P O R T A B L E   E L E C T R I C   D R I L L S**

Lightness and ease of handling, without sacrifice of power or efficiency, has been achieved in Thor portable electric drills because of the exclusive Thor "Motor Design". In drills of every capacity, bulk and weight have been held to a minimum while Thor engineering has constantly developed greater stamina and operating efficiency to insure the utmost dependability.





## **1/4-Inch UNIVERSAL ELECTRIC DRILL**

**Low-priced, Light Duty**



### **“Drill Champion” 1/4" Electric Drill**

Here is the first low-priced drill to be built in the fine tool tradition, with a quality of construction and engineering unparalleled in tools of this price.

This new drill is designed for general, light-duty, intermittent work. Ideal for maintenance and field installation men; for all-around shop service; for occasional light production drilling on jigs, dies and fixtures; for the home workshop. Drives hole saws; also usable with accessories for light grinding and wire brushing.

Aluminum housing die cast for strength and light weight. The motor . . . the most efficient ever put in a low-priced tool . . . has great overload capacity to assure cool running and long life. Oil-lite self-lubricating bearings and special alloy-steel gears cushion loads and provide quiet operation. Tool equipped with 3-jaw Jacobs chuck; 3-conductor cable with ground wire; recessed thumb-control switch. Standard voltage, 110; also available for 220 volts.

CAPACITY	FREE SPEED R.P.M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
1/4"	2000	4	12	ELDRI	\$19.95

In ordering, specify voltage desired

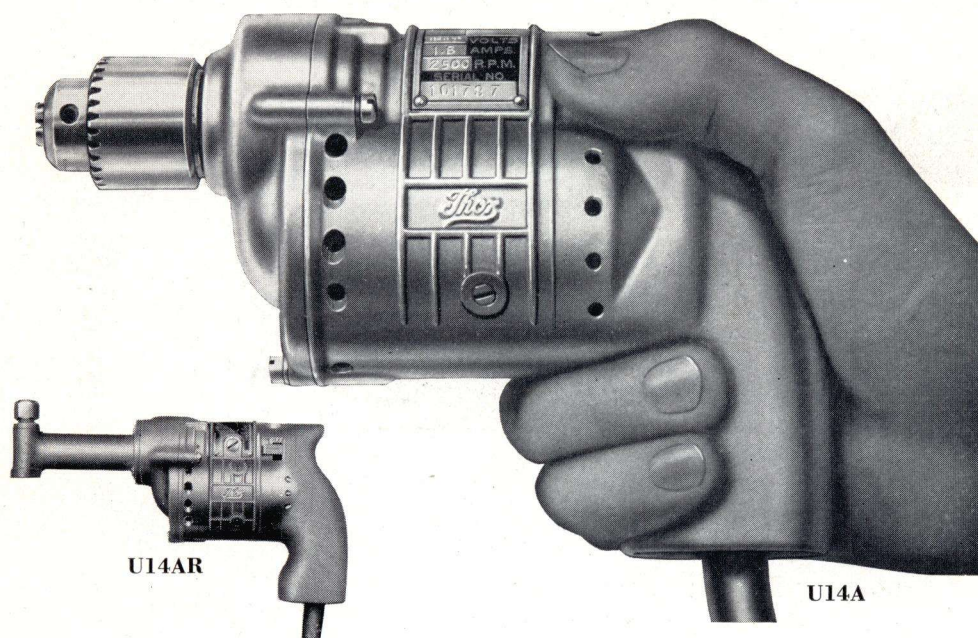
Other 1/4" drills illustrated on pages 3, 4, 6 and 7.

**“THOR OFFERS MORE”**





## $\frac{3}{16}$ and $\frac{1}{4}$ -Inch UNIVERSAL ELECTRIC DRILLS



### The Smallest Electric Drills Ever Built

These are the smallest, lightest weight, portable electric drills ever built, yet they have the power and stamina of tools twice their size. Their streamline design and extremely light weight provide perfect one hand operation. The same features of design and construction that bring maximum operating efficiency to larger Thor tools have been incorporated in these small drills. Jacobs chuck and ground wire is standard equipment. Shipping weight, 4 lbs. The U13C, U14C, U15C and U17C, drills similar in design to the "A" class drills but for heavier production work, can be furnished at the following prices: U14C, \$35.00; U13C, U15C and U17C, \$40.00.

The new Thor U14AR has the smallest working clearance of any right-angle drill on the market. The angle attachment can be turned and clamped in any position. Shipping weight, 7 lbs. Equipped with ground wire.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{4}$ "	U14A	2500	$2\frac{1}{2}$	$6\frac{3}{4}$	ENUPI	\$32.50
$\frac{1}{4}$ "	U14D	1900	$2\frac{1}{2}$	$6\frac{3}{4}$	ENRUL	32.50
$\frac{3}{16}$ "	U13A	3750	$2\frac{1}{2}$	$6\frac{3}{4}$	ENUPE	38.00
$\frac{3}{16}$ "	U15A	5100	$2\frac{1}{2}$	$6\frac{3}{4}$	ENUPO	38.00
$\frac{1}{4}$ "	U17A	700	3	$7\frac{1}{2}$	ENRUM	38.00
$\frac{1}{4}$ "	U14AR	2500	$3\frac{1}{2}$	$9\frac{1}{4}$	ENRAC	45.00

*Momentary contact switch can be furnished at no extra charge by specifying U13AM, U14AM, U15AM or U17AM; U13CM, U14CM, U15CM or U17CM; or U14DM. U17AM or U17CM furnished with  $\frac{1}{2}$ " Chuck for Hole Saw work at \$2.00 additional.*

In ordering, specify voltage desired

*Other  $\frac{3}{16}$ " and  $\frac{1}{4}$ " drills illustrated on pages 2, 4, 5, 6 and 7.*

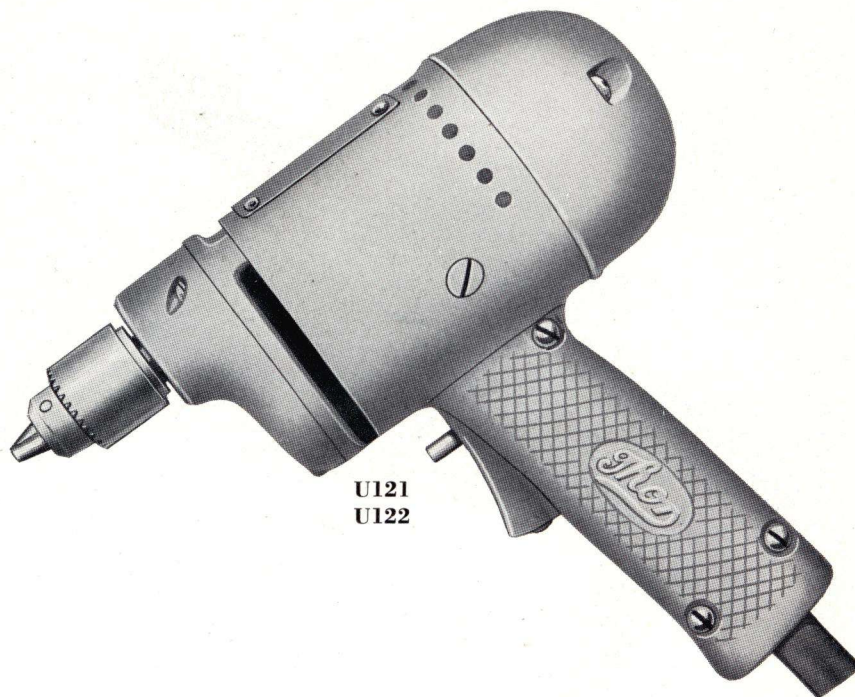
**"THOR OFFERS MORE"**





## **$\frac{1}{4}$ -Inch UNIVERSAL ELECTRIC DRILLS**

**“The Aircraft”**



### **$\frac{1}{4}$ ” “Aircraft” Electric Drills**

These Thor  $\frac{1}{4}$ ” “Aircraft” drills are designed especially for use in aeroplane construction, automobile body building and similar high speed production service. They develop approximately twice the power of ordinary, similarly rated, production-duty electric drills yet, because they are built with castings of magnesium alloy, they are extremely light in weight. Their small size and compact design make them particularly useful for operation in very limited space or in unusually difficult positions. These features of high power, light weight and ease of control make the Thor “Aircraft” drills unequalled for the hardest kind of production drilling.

The U121 and U122 have the famous Thor triple-insulated, hand-formed armature and commutator; oversize, precision ball-bearings with steel liners; helical, alloy-steel gears; and over-capacity brushes. Equipped with  $\frac{1}{4}$ ” Jacobs Chuck, momentary side-switch handle that can be locked for continuous operation of the drill, and 10 feet of three-conductor molded rubber cable with ground wire and molded rubber plug. Shipping weight, 7 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{4}$ ”	U121	5100	4	$7\frac{3}{4}$	ENARA	\$40.00
$\frac{1}{4}$ ”	U122	4000	4	$7\frac{3}{4}$	ENARE	40.00

In ordering, specify voltage desired

Other  $\frac{1}{4}$ ” drills illustrated on pages 2, 3, 6 and 7.

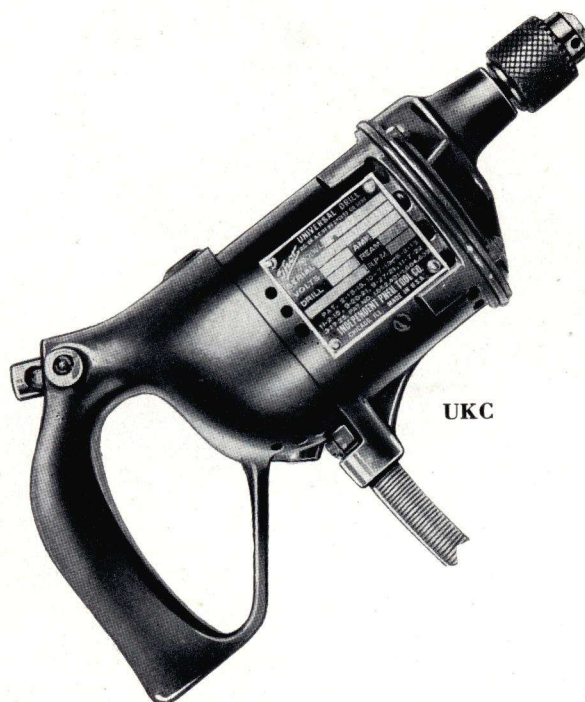
**“THOR OFFERS MORE”**





## **$\frac{3}{16}$ -Inch UNIVERSAL ELECTRIC DRILL**

**Heavy Production**



### **$\frac{3}{16}$ " Heavy Production Electric Drill**

A medium weight drill of rugged design made for drilling screw holes in hard wood and suitable for the hardest production work in manufacturing plants where large numbers of small holes are to be drilled. Can be had with center and stop device by specifying UKCC as illustrated on page 18 at a slight additional cost. The UKC can also be furnished with a bonnet cap instead of a grip handle for close quarter work simply by specifying UKB. A ball-bearing tool with a small rounded body that is easy to grasp. Equipped with Jacobs Chuck and ground wire. Shipping weight, 7 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{3}{16}$ "	UKC	3500	5	11 $\frac{1}{8}$	KAYCE	42.00

In ordering, specify voltage desired

Other  $\frac{3}{16}$ " drills are illustrated on page 3

**"THOR OFFERS MORE"**





## **$\frac{1}{4}$ -Inch UNIVERSAL ELECTRIC DRILL**

Light Duty



U20

### **$\frac{1}{4}$ " Light Duty Electric Drill**

This drill is designed primarily for intermittent drilling in maintenance work but it incorporates features of design and construction that assure very satisfactory performance on light production work. In addition to the hand wound motor and the regular features that are typical of Thor quality construction, this drill has a grip switch handle designed to allow ample space for the user's fingers and a double-pole trigger switch with lock and trigger guard. The grip type handle provides greater drilling accuracy through its easier operation and control. Equipped with a Jacobs Chuck and ground wire. Shipping weight, 7 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{4}$ "	U20	2200	5	11 $\frac{3}{4}$	ENUMA	\$30.00

In ordering, specify voltage desired

Other  $\frac{1}{4}$ " drills are illustrated on pages 2, 3, 4 and 7.

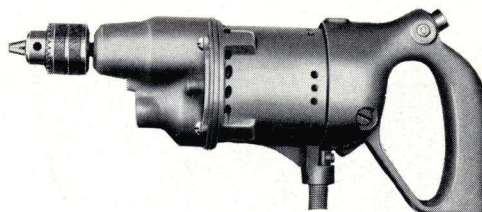
**"THOR OFFERS MORE"**



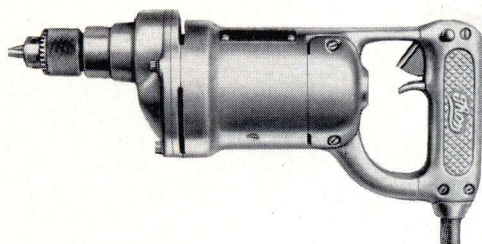


## **$\frac{1}{4}$ -Inch UNIVERSAL ELECTRIC DRILLS**

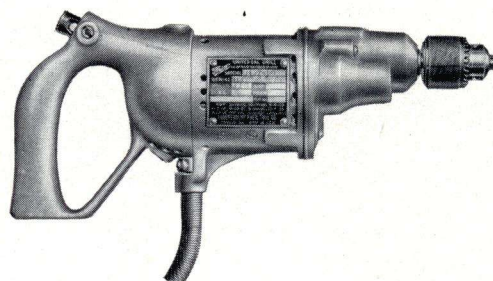
**Medium and Heavy Duty**



**UKHG**



**U30**



**UKD**

### **$\frac{1}{4}$ " Production and Maintenance Electric Drills**

Featuring extremely light weight, the U30 and UKD drills are designed for heavy-duty service up to their rated capacity in either maintenance or production work. Shipping weight, 10 pounds. All drills equipped with Jacobs chuck and ground wire. The UKD is available with centering device, at a slight additional cost, if specified as UKDC.

The UKHG is a slow-speed, heavy-duty drill especially geared down for cutting through stainless steel and similar materials. Shipping weight, 10 pounds.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{4}$ "	U30	2200	7	$12\frac{3}{4}$	ENUME	45.00
$\frac{1}{4}$ "	UKD	1400	$5\frac{1}{2}$	12	KAYDA	36.00
$\frac{1}{4}$ "	UKHG	400	$5\frac{3}{4}$	$12\frac{1}{2}$	KAYAG	40.00

In ordering, specify voltage desired

Other  $\frac{1}{4}$ " drills are illustrated on pages 2, 3, 4 and 6.

**"THOR OFFERS MORE"**





## **$\frac{5}{16}$ -Inch UNIVERSAL ELECTRIC DRILL**

**Heavy Production**



UAD



**Momentary Trigger  
Switch, Optional  
Equipment**

### **$\frac{5}{16}$ " Heavy Production Electric Drill**

Designed for production drilling in wood or metal and recommended for factories, garages, structural work, or any type of plant for either production or maintenance work. An accessible, convenient switch located at the tip of the Thor Grip Handle makes its use handy for the workman. A well-balanced tool, constructed with ball-bearings and equipped with a Jacobs Chuck and ground wire. Shipping weight, 12 lbs. Can be furnished with momentary trigger switch if desired at no extra cost.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{5}{16}$ "	UAD	1750	8	13 $\frac{1}{8}$	EDAYO	\$50.00

In ordering, specify voltage desired

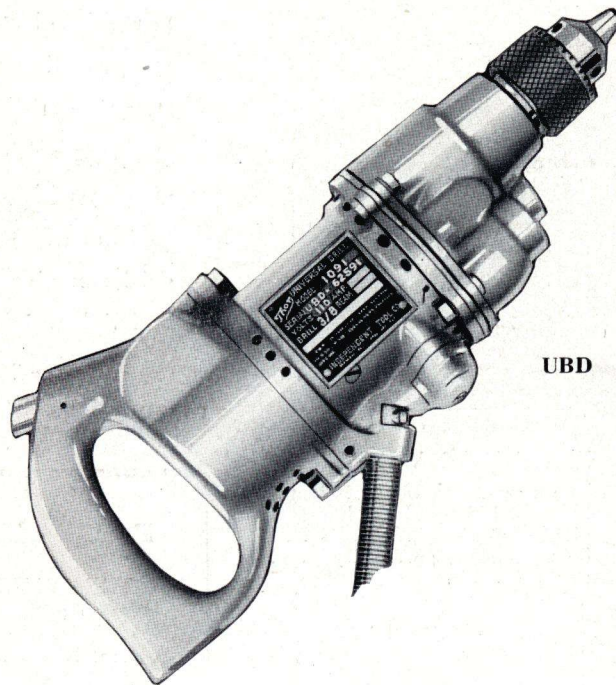
**"THOR OFFERS MORE"**





## **$\frac{3}{8}$ -Inch UNIVERSAL ELECTRIC DRILL**

**Heavy Production**



UBD



**Momentary Trigger  
Switch, Optional  
Equipment**

### **$\frac{3}{8}$ " Heavy Production Electric Drill**

A powerful, sturdy tool for its unusually light weight. Used mainly in industrial plants, in machine shops and factories, and where it is necessary to drill all sizes of holes up to and including  $\frac{3}{8}$ ". Equipped with a Jacobs Chuck and ground wire. Ball-bearing construction. A firm, comfortable grip handle is provided with a convenient on-and-off plunger switch, but, if desired, a momentary trigger switch can be furnished at no extra cost. Also, a side switch can be furnished at slight additional cost by specifying UBB. Shipping weight, 13 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{3}{8}$ "	UBD	750	9	14	ENDER	\$55.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**

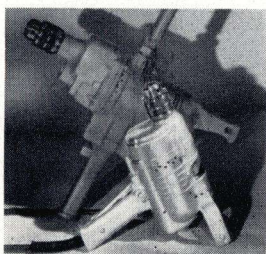




**New handling ease—greater accuracy**  
**For production or maintenance work**

#### HALF THE SIZE

The new Thor U44 is only half as large as old style  $\frac{1}{2}$ " drills . . . it's easy to use in those hard-to-get-at places.



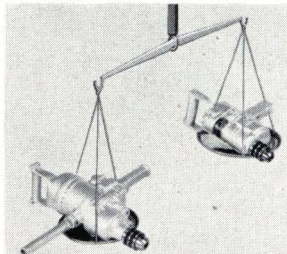
#### STREAMLINED DESIGN

The Thor U44 can be used in close quarters because of its modern, streamlined design.



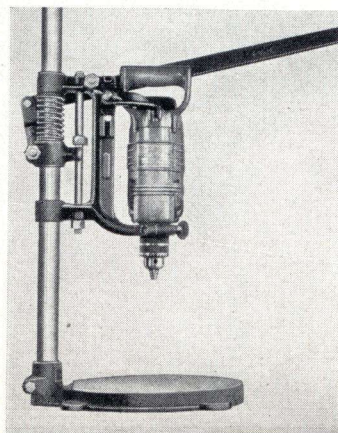
#### HALF THE WEIGHT

The new Thor U44 eliminates half the bulk and dead weight of old-style half-inch drills . . . brings new portability and handling ease.



#### DRILL STAND

The Thor U44 can be quickly converted into an accurate drill press by mounting in a Thor Drill Stand. See page 18.



# THOR U44

## HALF - INCH

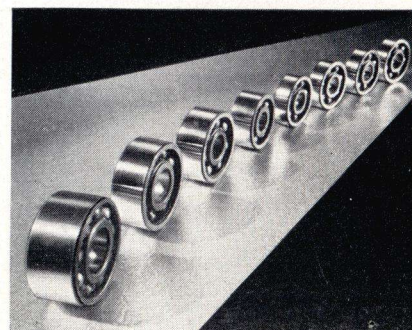
## ELECTRIC

## DRILL

With the new U44 half-inch capacity electric drill Thor continues to pioneer the field of lightness and convenience in portable electric tools. Incorporating pre-proved features of design and construction, this new drill is Thor's outstanding achievement in nearly half a century of leadership in portable power tool manufacturing. No other half-inch drill can give you such compact power and lightweight convenience or provide such efficiency for all half-inch drilling operations.

#### PRE-PROVED FEATURES

- **THE ARMATURE** in the Thor U44 is large in proportion to the tool size and is made from hand-formed coils which are separately wound with triple insulation.
- **THE COMMUTATOR** is mounted on a brass sleeve—instead of steel—to allow for uniform expansion and contraction caused by heat. This construction prevents loose or raised bars and floating segments . . . insures longer trouble-free service.
- **BRUSHES**—The design of the U44 permits the use of extra long "pigtail" brushes which provide perfect flow of current to and from the armature.
- **BEARINGS**—Every moving part of the new Thor U44 revolves on one of eight oversize, precision ball-bearings.



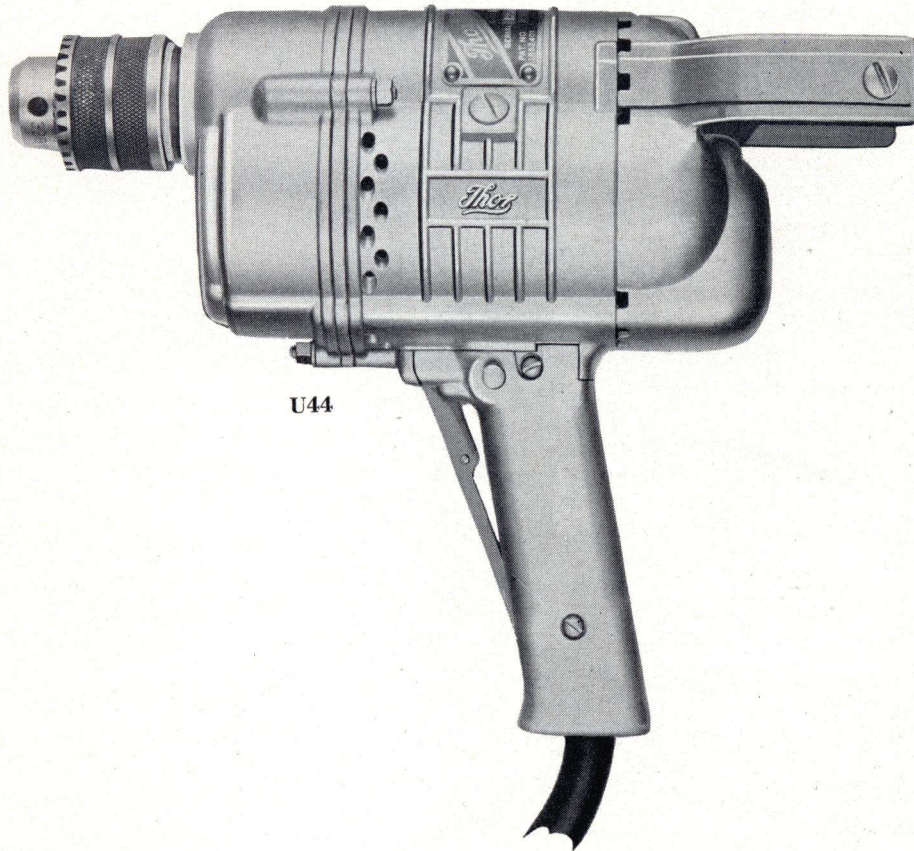
**"THOR OFFERS MORE"**





## **$\frac{1}{2}$ -Inch UNIVERSAL ELECTRIC DRILL**

**Heavy Duty**



U44

### **The Smallest, Lightest $\frac{1}{2}$ " Electric Drill Ever Built**

The new Thor U44 is the smallest, lightest half-inch electric drill ever built. It is a Heavy-Duty Drill, designed for continuous service on hard production jobs. At the same time, its small size and light weight give it portability and carrying ease that make it unequalled for maintenance. The U44 has triple-insulated hand-formed armature and commutator; extra long pigtail brushes; helical, alloy-steel gears; and full ball-bearing construction. Equipped with  $\frac{1}{2}$ " Jacobs Chuck, spade handle, lever-type side switch handle that can be locked for continuous operation of the drill, and 10 feet of three-conductor molded rubber cable with ground wire and two-prong molded rubber plug. Three-prong plug can be furnished in place of two-prong plug if specified. If desired, the U44 can be furnished with No. 1 or No. 2 Morse Taper Socket instead of Chuck at no additional charge. Shipping weight, 14 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{2}$ "	U44	450	9 $\frac{1}{4}$	12	ENFOR	\$59.50

In ordering, specify voltage desired

*Half-inch electric drills also illustrated on pages 12 and 13*

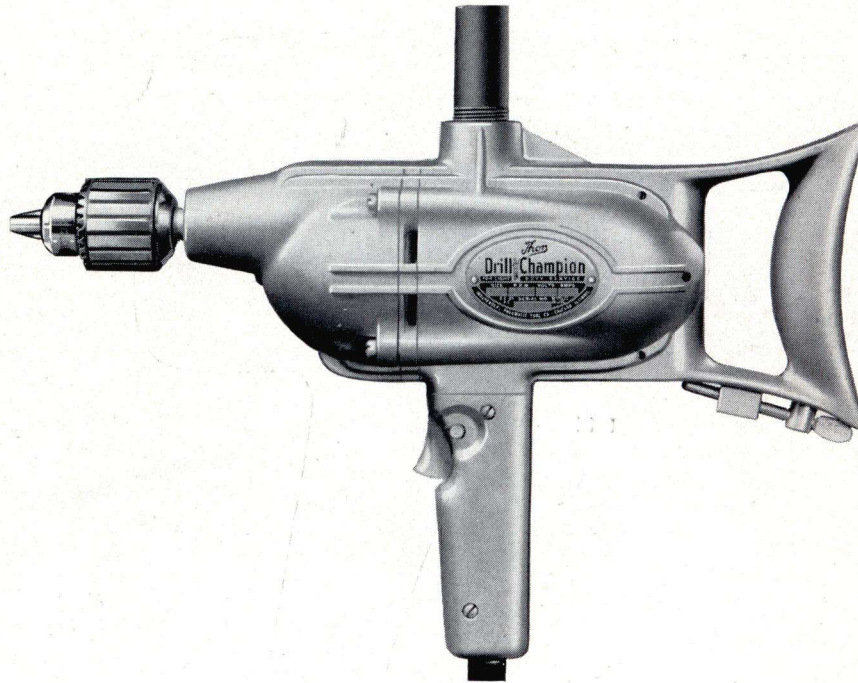
**"THOR OFFERS MORE"**





## **$\frac{1}{2}$ -Inch UNIVERSAL ELECTRIC DRILL**

**Low-priced, Light Duty**



### **“Drill Champion” $\frac{1}{2}$ ” Electric Drill**

Designed specifically for general, light duty service, the Thor Drill Champion is the first low-priced drill to be built in the fine tool tradition with proven performance features unparalleled in its price class.

This drill is ideal for maintenance and field installation men; for all-around shop service; and for occasional light production work. It can be used in any metal or wood; drives hole saws; also usable with light grinding and wire-brushing accessories.

The motor is the most efficient ever put into a tool in its price class, its greater overload capacity assuring dependable power and long life. Strength and light weight are provided by the die-cast aluminum housing. Oil-lite, self-lubricating bearings and special alloy-steel gears cushion loads and assure quiet operation. All parts readily accessible.

Equipped with  $\frac{1}{2}$ ” three-jaw Jacobs chuck with Key; spade handle with chuck key holder; trigger switch handle with locking pin; removable dead handle; and 3-conductor cable with ground wire and plug. Shipping weight, 14 pounds.

CAPACITY	FREE SPEED R.P.M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{2}$ ”	450	9 $\frac{1}{4}$	15	ELDRO	\$35.00

**In ordering, specify voltage desired**

*Half-inch electric drills also illustrated on pages 11 and 13*

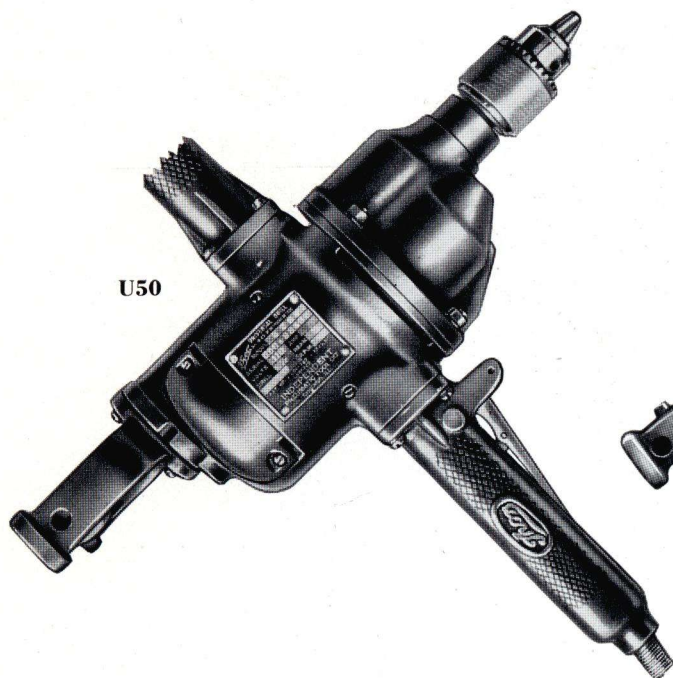
**“THOR OFFERS MORE”**





## $\frac{1}{2}$ and $\frac{9}{16}$ -Inch UNIVERSAL ELECTRIC DRILLS

General Purpose and Heavy Production



U50



UDA

### $\frac{1}{2}$ " General Purpose Electric Drill

A powerful ball-bearing  $\frac{1}{2}$ " drill that can be used for either maintenance or light production work in any shop or plant. Equipped with a Combination Spade Handle and Breast Plate. It has a Jacobs Chuck, Dead Handle, and ground wire. A feed screw can be substituted for the spade handle if desired. This drill can also be furnished at no extra cost with a free speed of 380 R. P. M. if specified; this speed is recommended for garage work. Shipping weight, 20 lbs.

### $\frac{1}{2}$ " and $\frac{9}{16}$ " Heavy Production Electric Drills

The UDA is an exceptionally rugged ball-bearing tool with a powerful motor and is designed for deep drilling where great power and strength are required. Can be used for the most severe operations for continuous  $\frac{1}{2}$ " production drilling. The UDB operates at a slower speed and is for heavy duty  $\frac{9}{16}$ " drilling. Both drills equipped with Jacobs Chuck, Spade Handle, Side Switch Handle, Dead Handle and ground wire. If desired, they can be furnished with a feed screw instead of a spade handle. Shipping weight, 30 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{2}$ "	U50	600	13 $\frac{1}{2}$	15 $\frac{1}{2}$	ENUPA	\$58.00
$\frac{1}{2}$ "	UDA	650	20 $\frac{3}{4}$	16 $\frac{1}{2}$	ENDUA	72.00
$\frac{9}{16}$ "	UDB	500	20 $\frac{3}{4}$	16 $\frac{1}{2}$	ENDUB	74.00

In ordering, specify voltage desired

Half-inch electric drills also illustrated on pages 11 and 12

**"THOR OFFERS MORE"**



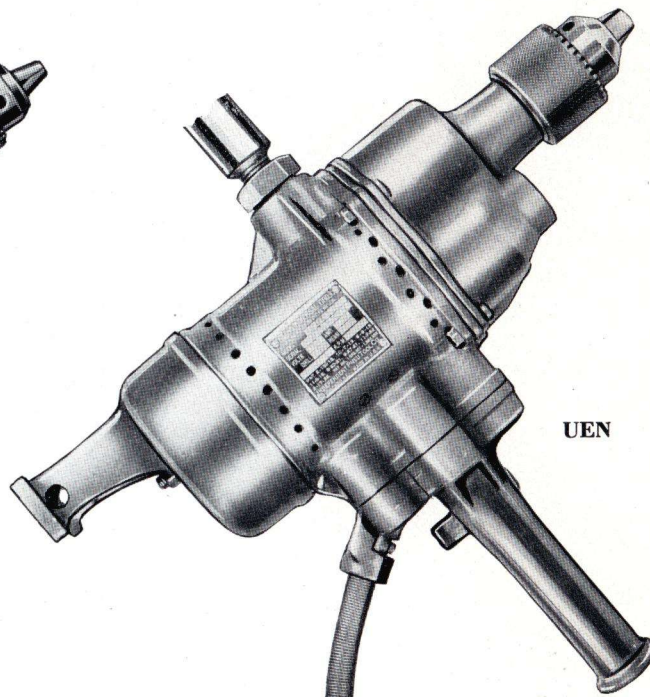


## **$\frac{5}{8}$ " UNIVERSAL ELECTRIC DRILLS**

**Light and Heavy Production**



**UDC**



**UEN**

### **$\frac{5}{8}$ " Light Production Electric Drill**

This tool is recommended for ordinary types of heavy duty drilling up to its capacity. As in all Thor tools, the gears are hardened chrome-nickel alloy steel and run in a grease tight gear case. Equipped with Jacobs Chuck, Side Switch, Spade Handle, Dead Handle and ground wire. A general, all-around tool for work in machine shops and for the heavier type of maintenance work. If desired, a feed screw can be furnished in place of the spade handle. Shipping weight, 34 lbs.

### **$\frac{5}{8}$ " Heavy Production Electric Drill**

For exceptionally heavy duty drilling and reaming; for drilling and counter-sinking auto frame-work holes; reaming rivet holes in truck bodies; and for heavy wood boring. Side switch type and furnished with either a No. 2 Morse Taper Socket or  $\frac{5}{8}$ " Jacobs Chuck. Equipped with a Spade Handle, Dead Handle and a ground wire. A feed screw, if desired, can be substituted for the spade handle. Shipping weight, 34 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{5}{8}$ "	UDC	500	22	$16\frac{1}{2}$	ENDUD	\$76.00
$\frac{5}{8}$ "	UEN	400	$21\frac{1}{2}$	$16\frac{3}{4}$	ENEUE	85.00

In ordering, specify voltage desired

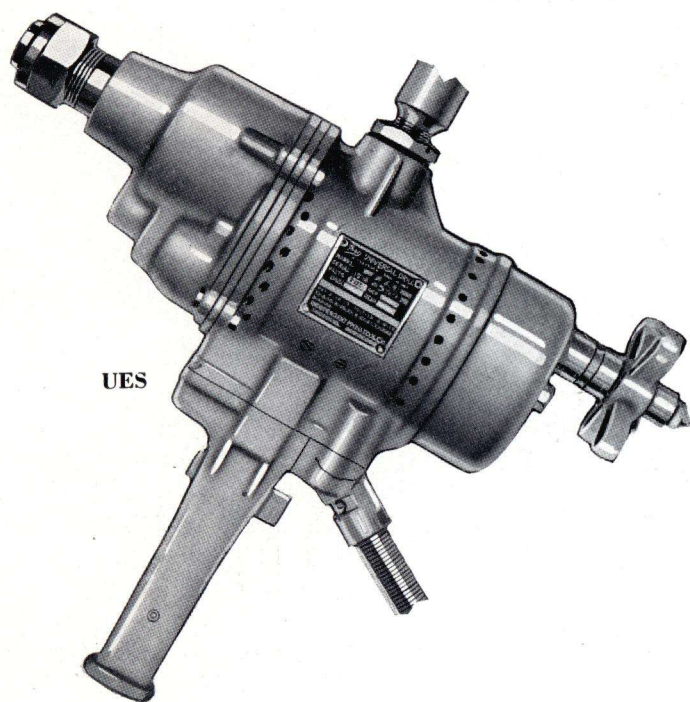
**"THOR OFFERS MORE"**





## **$\frac{3}{4}$ -Inch UNIVERSAL ELECTRIC DRILLS**

**Light and Heavy Production**



**UES**

### **$\frac{3}{4}$ " Light Production Electric Drill**

A drill designed for continuous production work where a powerful heavy-duty tool of low spindle speed is required. It is equipped with a Side Switch, Dead Handle, No. 2 Morse Taper Socket, Spade Handle and a ground wire. No. 3 Morse Taper Socket can be furnished as optional equipment, if so specified. If desired, a feed screw can be substituted for the Spade Handle and a  $\frac{3}{4}$ " Jacobs Chuck substituted for the Morse Taper Socket. This tool is used extensively for structural steel work in boiler shops and ship-building yards. Shipping weight, 34 lbs.



**UFH**

### **$\frac{3}{4}$ " Heavy Production Electric Drill**

The extra heavy construction and power of this tool makes it suitable for all heavy duty work. It is equipped with a Side Switch, Dead Handle and ground wire. If specified, can be furnished with momentary switch handle (illustrated on page 16) which shuts off current the instant operator's grasp is released. No. 2 Morse Taper Socket is standard equipment, but it may be furnished with a  $\frac{3}{4}$ " Jacobs Chuck instead of socket, if desired. It is also equipped with a Spade Handle, but a Feed Screw can be substituted. Shipping weight, 40 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{3}{4}$ "	UES	330	22	$16\frac{3}{4}$	ENUES	\$85.00
$\frac{3}{4}$ "	UFH	550	28	18	ENFUH	95.00

In ordering, specify voltage desired

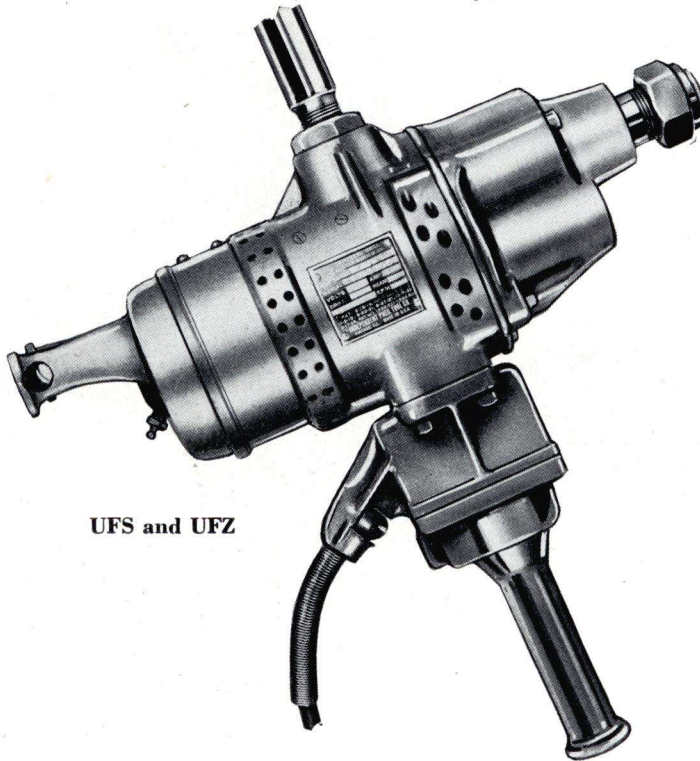
**"THOR OFFERS MORE"**





## **$\frac{7}{8}$ and 1-Inch UNIVERSAL ELECTRIC DRILLS AND REAMERS**

**Heavy Production**



**UFS and UFZ**



**MOMENTARY SWITCH HANDLE** shuts off current instantly when operator releases grasp. Optional equipment.

### **$\frac{7}{8}$ " and 1" Heavy Production Electric Drills and Reamers**

Constructed ruggedly to withstand the hardest kind of continuous production, these two tools are, nevertheless, comparatively light in weight. Full anti-friction bearings, heat treated chrome nickel steel gears, encased in grease-tight chamber assure long life. The UFS is furnished with a Dead Handle, a No. 2 Morse Taper Socket, a Spade Handle and a ground wire. If desired, a Feed Screw may be substituted for the Spade Handle and a No. 3 M.T. for the No. 2 M.T. The UFZ has the same equipment and construction as the UFS, with the exception that it is more powerfully built and is equipped, as standard, with a No. 3 Morse Taper. If specified, the UFS and UFZ can be furnished with momentary switch handle which shuts off current the instant the operator's grasp is released. Shipping weight, 40 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{7}{8}$ " Drilling $\frac{9}{16}$ " Reaming	UFS	350	27 $\frac{3}{4}$	19 $\frac{1}{2}$	ENFUS	\$ 96.00
1" Drilling $\frac{11}{16}$ " Reaming	UFZ	300	29	20	ENFUZ	115.00

In ordering, specify voltage desired

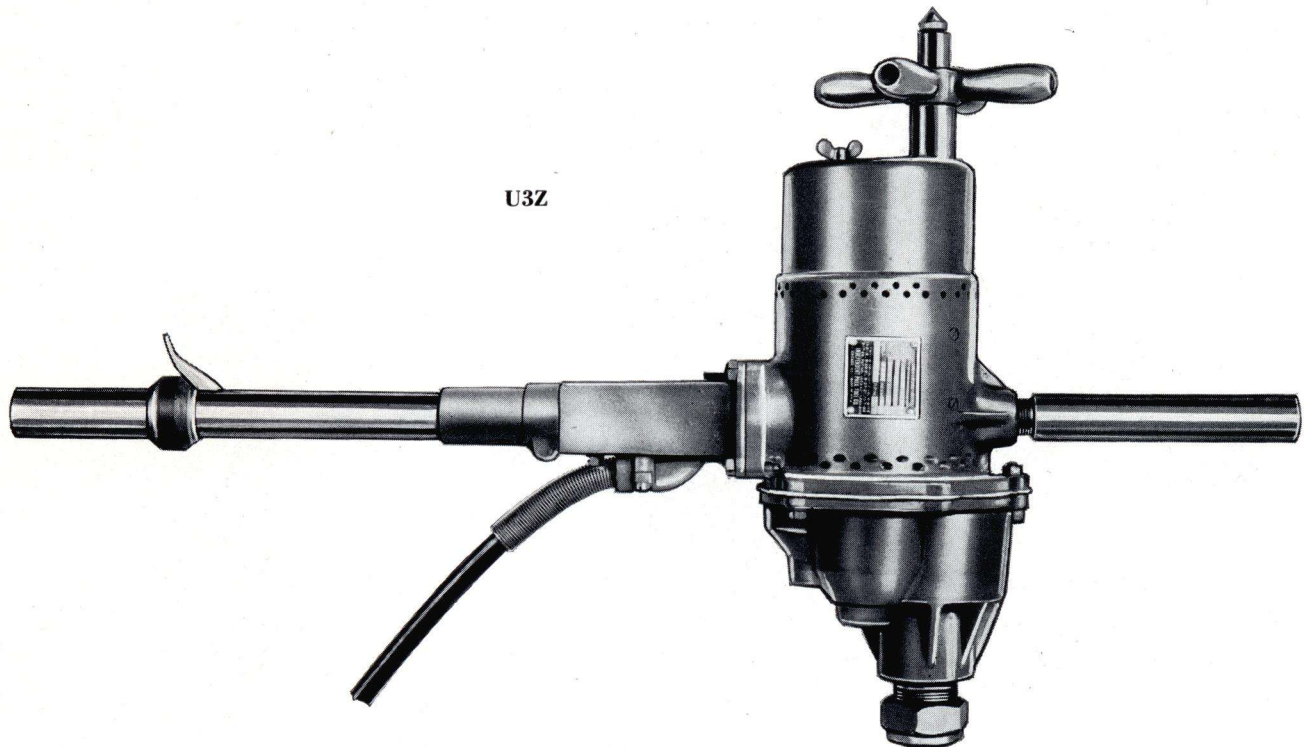
**"THOR OFFERS MORE"**





## 1½-Inch UNIVERSAL ELECTRIC DRILL

Heavy Production



### 1½" Heavy Production Electric Drill

A powerful, sturdy, heavy-duty tool designed for the heaviest type of drilling and reaming in bridge construction, ship yard work, the erecting of heavy machinery, and power and generating plant installations. This drill has the Thor Quick Acting Safety Switch and is equipped with a Spade and a Dead Handle. It has a capacity of 1½" drilling and is furnished with a No. 3 Morse Taper Internal Socket and a ground wire. A Feed Screw may be had in place of the Spade Handle, if desired. This tool is also made for direct current only, if desired. Complete ball-bearing construction. It can also be furnished at no extra cost at a speed of 500 R.P.M., if desired. Shipping weight, 70 lbs.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
1½" Drilling	U3Z	350	49½	19⅞	ENDUE	\$150.00

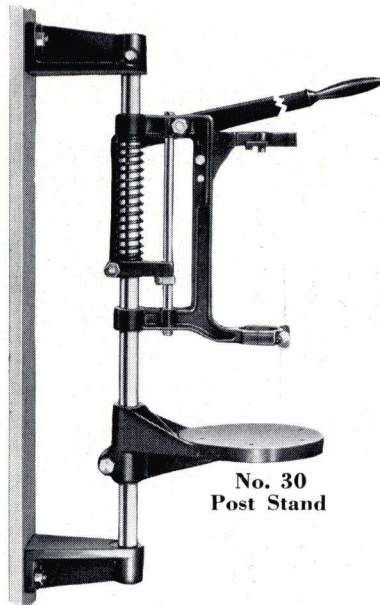
In ordering, specify voltage desired

**"THOR OFFERS MORE"**





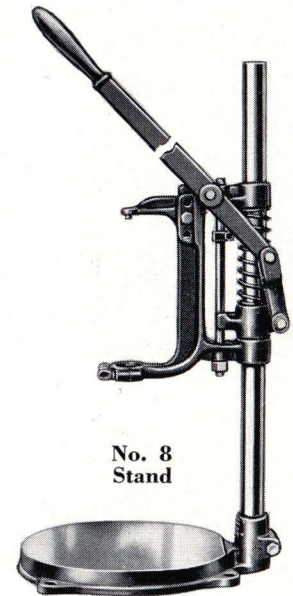
## ELECTRIC DRILL STANDS



No. 30  
Post Stand



No. 26  
Stand



No. 8  
Stand

The Thor Electric Drill Stands quickly convert a Portable Electric Drill into an accurate, sensitive Drill Press. Six to one leverage permits tremendous pressure on the work. These stands are so constructed that drills are accurately and securely arranged with minimum effort and held absolutely square and rigid. Of strong construction, they last a lifetime. The shipping weight for the No. 8 stand is 40 lbs.; for the No. 26, 60 lbs., and for the No. 30 Post Stand, 80 lbs.

STAND NUMBER	TO ACCOMMODATE SIZE DRILLS	VERTICAL MOVEMENT	ADJUSTED VERTICALLY	BENCH SPACE	WEIGHT POUNDS	CODE WORD	
8	All U13, U14,						
	U15 and U17						
	class drills	2"	11"	13" x 9"	29	ELSOR	\$22.00
	UL, UK, UA, UB,	3"	9"	11 1/2" x 9 1/2"	32		
	U-20, U-30, U-44, U-50	3 1/4"	10"	13" x 9"	30		
26	UDA, UDB, UDC, UEN, UES, UFH, UFS, UFZ 1/2" Drill Champion	5"	14"	15" x 9"	50	ENOXE	32.00
30 Post Stand	(Same drills as No. 26 Stand)	5"	14"	DISTANCE WALL TO CENTER OF DRILL 14 1/2"	68	ENOXY	36.00

When ordering stands, specify for what size tool

## THOR CENTERING DEVICES

This adjustable attachment centers and drills lead holes to desired depths in one operation and assures perfect alignment of screw head in hinge countersink. Used particularly for applying metal moulding on automobile or railway car interiors or similar work. It assures a perfect job in one operation and prevents drill breakage.

Prices With Complete Tool  
UKCC . . . \$64.50    UKDC . . . \$58.50



UKCC  
With Centering Device

**"THOR OFFERS MORE"**





## **ELECTRIC SAWS AND HAMMERS**

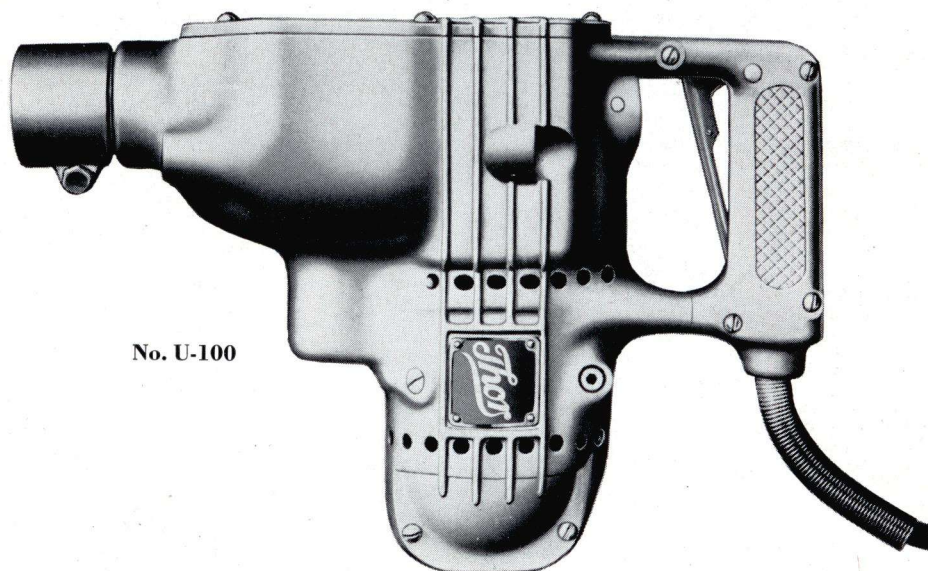
The quality that is characteristic of all Thor tools is immediately apparent in the operation of the new Thor Universal Electric Hammers. Long periods of actual service in those industries which impose the most exacting service demands on mechanical equipment have definitely established Thor's superiority in performance and low operating cost.



# Thor

## PORTABLE ELECTRIC HAMMER

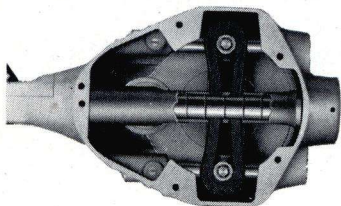
Heavy-Duty; Capacity up to 1" Star Drill



No. U-100

### The "THOR-NADO"

The new Thor-Nado portable electric hammer delivers a more powerful blow than any tool of comparable size and capacity. It will do faster, better work on hundreds of heavy duty applications in stone, wood, and metal; including star drilling, channeling, chipping, cleaning, scaling, cutting, gouging, beading, caulking, and seaming.



The Thor-Nado's radically new "Sling-Shot Drive" is a shock-proof rubber connection that drives the piston in powerful hammer action. It whips the piston back and forth, acting as both power accumulator and shock absorber. The blow of the piston is not felt by the operator nor is it transmitted to the gears or motor.

The specially-designed, heavy-duty, Universal type motor is housed at right angles to the barrel of the piston and transmits power through heavy-duty, helical-cut gears. Ball bearings are sealed against dust and dirt. Patented Thor tangential type ventilation. Hammer easily dismantled for cleaning and inspection. Round nozzle is standard; Hexagonal nozzle, optional.

Heavy-duty, two-pole momentary grip switch. 3-conductor cable with ground wire and molded rubber plug. Equipment includes: One 9/16" Star Drill; one Turning Handle; one Ejector Pin; one extra Rubber Sling-Shot; one carrying case. Shipping wt., 32 lbs.

CAPACITY	SIZE NUMBER	BLOWS PER MINUTE	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
1" Star Drill	U-100	1600	14	13½	ELHAM	\$110.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**





## ELECTRIC HAMMER TOOLS

### For Use With Thor-Nado U-100 Electric Hammer

With these accessories the Thor-Nado Electric Hammer becomes a highly versatile tool, able to do hundreds of different jobs faster and better. 12 different types of tools are available for a wide variety of heavy duty applications in stone, wood, metal and other materials, including star drilling, channeling, chipping, cleaning, scaling, cutting, gauging, beading, caulking, and seaming.

*Note: Hexagonal Shank tools require Hexagonal nozzle on hammer, which is optional equipment with U-100 Hammer.*

ACCESSORIES (at right). No. 61076—Holder for Taper Shank tools, right. No. 68104—Holder for Straight Shank tools, left. No. 61090—Ejector Pin (not shown).



No. 61089—Star Drills



No. 68100—Star Drills



No. 68101—Standard Chisel



No. 68102—Standard Bull Point



No. 68103—Mortar Chisel



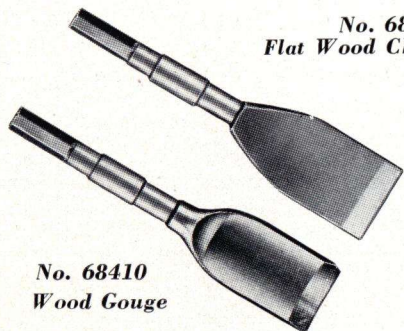
No. 68106—Bush Hammer



No. 68105—Plugging Tool



No. 68408—Web Cutting Tool



No. 68409  
Flat Wood Chisel

No. 68410  
Wood Gouge



No. 68411



No. 68412

### HAMMER TOOLS FOR USE WITH No. U-100 ELECTRIC HAMMER

CATALOG NUMBER	DESCRIPTION	PRICE
61076	Holder for Taper Shank Tools.....	\$4.50
61090	Ejector Pin.....	.30
68104	Turning Wrench for Straight Shank Tools.....	.75

#### STAR DRILLS

CATALOG NUMBER	DESCRIPTION	SIZE OF POINT	LENGTH IN INCHES	
			5	9
61089	Star Drills—Taper Shank..... (Also available in 12", 18", and 24" lengths on special order.)	1/4" & 5/8" ..	\$0.75	.....
		3/8" .....	.75	.....
		1/2" .....	.80	.....
		5/8" .....	.85	.....
		3/4" .....	.90	.....
		7/8" .....	.95	.....
		1" .....	1.00	.....
68100	Star Drills—Straight Shank..... (Also available in 12", 18", and 24" lengths on special order.)	3/4" & 7/8" ..	1.05	.....
		1" & 1 1/8" ..	1.15	.....
			1.25	.....

#### STANDARD CHISELS

CATALOG NUMBER	DESCRIPTION	LENGTH IN INCHES		
		5	9	12
68101	Standard Chisel—Straight Shank.....	\$1.25	\$1.45	\$1.65
68407	Standard Chisel—Hexagonal Shank.....	1.25	1.45	1.65
68102	Standard Bull Point—Straight Shank.....	1.25	1.45	1.65

#### MISCELLANEOUS TOOLS

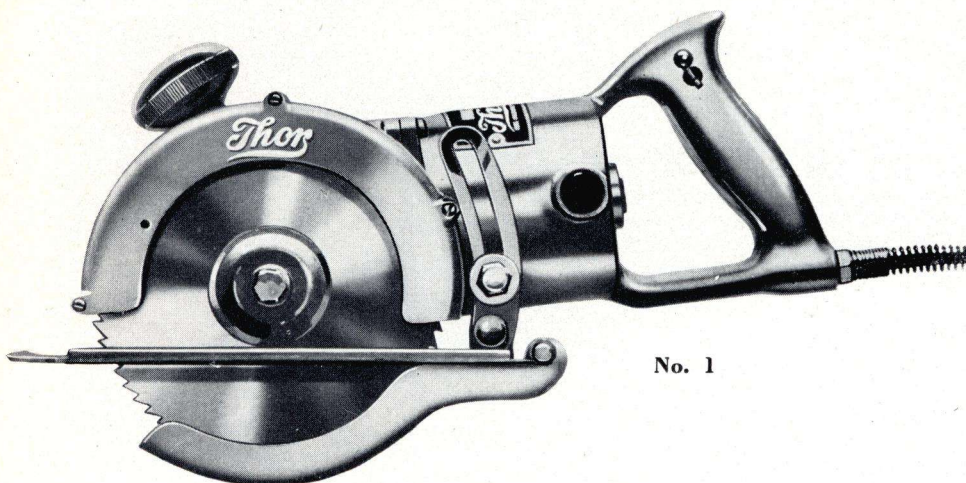
CATALOG NUMBER	DESCRIPTION	PRICE
68103	Standard Mortar Chisel—Straight Shank.....	\$1.30
68105	Plugging Tool—Taper Shank.....	.80
68106	Bush Hammer—(Head 1 1/2" Sq.)—Straight Shank.....	4.50
68408	Web Cutting Tool—Hexagonal Shank.....	6.75
68409	Flat Wood Chisel (2 1/8" blade)—Hexagonal Shank.....	3.00
68410	Wood Gouge—Hexagonal Shank.....	4.00
68411	Scaling Chisel—(2" blade)—Straight Shank.....	2.35
68412	Scaling Chisel—(1 1/2" blade)—Straight Shank.....	2.25

"THOR OFFERS MORE"

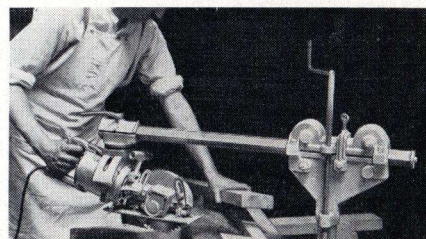




## PORTABLE ELECTRIC SAWS



No. 1



### SLIDING RADIAL ARM

Any Thor Saw, excepting Models No. 1, 2 and 6A can be converted into a sliding arm stationary saw by use of the Sliding Radial Arm, as illustrated above. With this arrangement the saw slides with the arm and has a forward and backward movement on ball bearings. When ordering specify model and serial number of saw.

Sliding Radial Arm.....\$95.00

Model for model, no lighter weight or more powerful electric hand saws are built. Convenient grip handle allows user utmost comfort. High grade ball-bearings throughout. Designed with the primary aim of assuring almost fool-proof safety. Gravity operated guards provide perfect protection.

Thor No. 1 Saw is intended for light duty work only. No. 1 and No. 2 have single pole, momentary contact switches. No. 2A and No. 3 have two pole momentary contact switches. No. 1 and No. 2 are adjustable for depth cut only. No. 2A and No. 3 are adjustable for both depth and bevel cutting. No. 1 Saw has  $\frac{1}{3}$  h.p. motor; No. 2,  $\frac{1}{2}$  h.p. motor, No. 2A,  $\frac{2}{3}$  h.p. motor; No. 3,  $\frac{3}{4}$  h.p. motor.

The larger saws, Nos. 4A, 5 and 6A use heavy duty ball-bearings at all friction points and have a capacity for carrying both side and forward thrust. All larger models are adjustable for both depth and bevel cutting and bases are swiveled to maximum angle of 45°. Two pole momentary contact switches are used. Models 2A and 4A have spring operated telescopic guards, the bottom of which when fed into the work, rotates upward into the upper housing. Nos. 5 and 6A have safety gravity operated guards. The worm for the Thor Saw is chrome nickel steel, cut in our own saw department, heat treated and polished. Worm wheel is bronze alloy. Gears installed in carefully matched sets. No. 4A Saw has  $\frac{7}{8}$  h.p. motor; No. 5 has 1 h.p. motor; No. 6A has  $1\frac{1}{3}$  h.p. motor. Shipping weights, No. 1, 13 lbs.; 2, 23lbs.; 3, 42 lbs.; 4A, 46 lbs.; 5, 53 lbs.; 6A, 64 lbs.; 2A, 33 lbs.

Saws No. 2AG and 5G are for all types of grooving operations in maintenance, production or construction work. No. 2AG is for general purpose use, it can be adjusted vertically for depth of cut from  $\frac{1}{4}$ " to  $1\frac{3}{4}$ ". No. 5G is for heavy-duty service and can be adjusted vertically for depth of cut from 0" to  $1\frac{3}{4}$ ". Shipping weights; 2AG, 39 lbs.; 5G, 57 lbs.

SIZE	SIZE OF BLADE	FREE SPEED OF BLADE	NET WEIGHT POUNDS	CUTTING CAPACITY MAX. IN WOOD INCHES	LENGTH OVERALL INCHES	CODE WORD	PRICE
No. 1	6" Light Duty	2800 R.P.M.	8	$1\frac{7}{8}$	12	ENSKA	\$ 50.00
No. 2	6" Heavy Duty	3600 R.P.M.	11	$1\frac{7}{8}$	14	ENSKB	80.00
No. 2A	7" Heavy Duty	3200 R.P.M.	15	$2\frac{3}{8}$	18	ENSKI	105.00
No. 3	8" Heavy Duty	3400 R.P.M.	18	$2\frac{3}{4}$	20	ENSKC	125.00
No. 4A	9" Heavy Duty	3200 R.P.M.	22	$2\frac{7}{8}$	21	ENSKD	135.00
No. 5	10" Heavy Duty	2600 R.P.M.	26	$3\frac{3}{4}$	21	ENSKE	180.00
No. 6A	12" Heavy Duty	2400 R.P.M.	32	$4\frac{3}{8}$	24	ENSKF	195.00
No. 2AG	6" Groover	3200 R.P.M.	17	$1\frac{3}{4}$ " depth - 1" width	18	ENSKL	135.00
No. 5G	6" Groover	2600 R.P.M.	30	$1\frac{3}{4}$ " depth - 2" width	21	ENSKM	205.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**





## SAW BLADES AND ABRASIVE DISCS



**COMBINATION**—A blade designed for all around work; suitable for ripping or cross-cutting.

No. 376	Diam. 6 in.	Each \$2.95
No. 377	Diam. 7 in.	Each 3.50
No. 378	Diam. 8 in.	Each 3.95
No. 379	Diam. 9 in.	Each 4.60
No. 380	Diam. 10 in.	Each 4.95
No. 382	Diam. 12 in.	Each 5.95



**CUT-OFF**—A most desirable blade for all types of cross cut work.

No. 309	Diam. 6 in.	Each \$2.95
No. 356	Diam. 7 in.	Each 3.50
No. 293	Diam. 8 in.	Each 3.95
No. 357	Diam. 9 in.	Each 4.60
No. 324	Diam. 10 in.	Each 4.95
No. 334	Diam. 12 in.	Each 5.95



**FINE TOOTH**—This blade is the lightest gauge (thinnest) blade cataloged and is fitted with very small teeth. It is used primarily for cutting Celotex or similar soft wallboard.

No. 280	Diam. 6 in.	Each \$4.40
No. 366	Diam. 7 in.	Each 4.75
No. 281	Diam. 8 in.	Each 5.00
No. 361	Diam. 9 in.	Each 6.90
No. 294	Diam. 10 in.	Each 7.90



**FRICTION**—This is a shallow notched steel disc for cutting by friction or burning, light gauge flat or corrugated sheets of iron. Do not use with Size No. 1.

No. 331	Diam. 6 in.	Each \$6.50
No. 332	Diam. 8 in.	Each 9.00



**GROOVING**—The following 5½ in. diameter grooving blades are suitable for plowing with or against the grain. Use only No. 300 with Size No. 1.

No. 300	Width ⅛ in.	Each \$6.50
No. 307	Width ⅜ in.	Each 7.25
No. 305	Width ⅝ in.	Each 7.75
No. 301	Width ¾ in.	Each 8.00
No. 302	Width ⅞ in.	Each 9.00
No. 303	Width 1½ in.	Each 10.50
No. 308	Width 1¾ in.	Each 12.00



**MITRE**—A blade for very smooth cutting. Ideal for interior finish. Is not set, but hollow ground for clearance.

No. 314	Diam. 6 in.	Each \$5.40
No. 362	Diam. 7 in.	Each 6.20
No. 315	Diam. 8 in.	Each 6.80
No. 363	Diam. 9 in.	Each 7.90
No. 316	Diam. 10 in.	Each 8.60



**SPECIAL HIGH-SPEED HOLLOW GROUND BLADES**—Available in 6 and 8 inch diameters in several tooth types. Recommended for cutting sheet and tube copper, brass, bronze, and aluminum. Advise material to be cut, give width and gauge size, and we will recommend a blade and quote prices. Do not use with Size No. 1.



**NAIL CUTTING**—Excellent for repairing old floors. Shipping clerks also find it indispensable for opening

boxes and crates where nails may be struck. Do not use with Size No. 1.

No. 347	Diam. 6 in.	Each \$3.25
No. 358	Diam. 7 in.	Each 3.90
No. 348	Diam. 8 in.	Each 4.40
No. 359	Diam. 9 in.	Each 5.00
No. 349	Diam. 10 in.	Each 5.60



**RIP**—This is the fastest cutting blade for rough work, rip or cut-off. If rip cuts are to be made with Sizes No. 1, No. 2, No. 2A, No. 3 and No. 4A, use combination blade.

No. 326	Diam. 10 in.	Each \$4.95
No. 330	Diam. 12 in.	Each 5.95

## ABRASIVE DISCS



**6" Size—\$1.90 each**

**10" Size—\$3.30 each**

LS6 for Limestone  
CO-6 for Concrete  
TL-6 for Tile  
MA-6 for Marble  
TR-6 for Transite  
TC-6 for Terra Cotta  
CA-6 for Cast Iron  
AS6 for Alloy Steels  
GL-6 for Glass

LS10 for Limestone  
CO-10 for Concrete  
TL-10 for Tile  
MA-10 for Marble  
TR-10 for Transite  
TC-10 for Terra Cotta  
CA-10 for Cast Iron  
AS10 for Alloy Steels  
GL-10 for Glass

**7" Size—\$2.10 each**

LS-7 for Limestone  
CO-7 for Concrete  
TL-7 for Tile  
MA-7 for Marble

TC-7 for Terra Cotta  
CA-7 for Cast Iron  
AS-7 for Alloy Steel  
GL-7 for Glass

TR-7 for Transite

**8" Size—\$2.20 each**

**12" Size—\$4.40 each**

LS8 for Limestone  
CO-8 for Concrete  
TL-8 for Tile  
MA-8 for Marble  
TR-8 for Transite  
TC-8 for Terra Cotta  
CA-8 for Cast Iron  
AS8 for Alloy Steels  
GL-8 for Glass

LS12 for Limestone  
CO-12 for Concrete  
TL-12 for Tile  
MA-12 for Marble  
TR-12 for Transite  
TC-12 for Terra Cotta  
CA-12 for Cast Iron  
AS12 for Alloy Steels  
GL-12 for Glass

**"THOR OFFERS MORE"**





# SETTING THE PACE

## *Famous firsts* IN PORTABLE ELECTRIC

### DRILLS

#### *First*

portable electric drill to be substantially reduced in weight and bulk without sacrifice of power was built by Thor. Pioneering the field of lightness and balance in electric tools, Thor introduced such improvements as the U14A midget type drill of one-quarter inch capacity and followed this with the U44 drill of one-half inch capacity, both with half the weight in half the space . . . and the power of tools twice the size.

### SCREW DRIVERS

#### *First*

portable electric screw driver and nut setter ever made was conceived and built in the Thor engineering laboratories. And it was there that the Thor engineers solved the once-difficult problem of driving screws and nuts evenly, with the Thor friction-clutch attachment . . . and later perfected this even more for larger screws and nuts with the Thor kick-out attachment. Today, Thor has the world's most complete line of screw drivers and nut setters with a wide range of attachments to solve any production problem.

### GRINDERS

#### *First*

to make the use of portable electric grinders practical for production work was Thor with the development of the patented Thor "Shock Absorber" spindle. The "Shock-Absorber" is a two-piece shaft, joined with resilient steel strips, that absorbs and stops all vibration at the spindle . . . before it reaches the motor! This method of Vibration-Control prevents ruinous vibration from causing excessive wear and motor burnouts. The result is smooth operation, easy handling, longer life . . . and lower maintenance costs for Thor electric grinders.

### HAMMERS

#### *First*

major improvement in the design and construction of portable electric hammers was the recently introduced "Thor-Nado". With the exclusive Thor "Slingshot Drive", the Thor-Nado has unequalled power and stamina for heavy-duty service. This "Slingshot Drive" is a method of driving the piston by means of a shock-proof rubber connection which whips the piston back and forth in a powerful hammer action and acts as both power accumulator and shock absorber.

### NIBBLERS

#### *First*

portable electric tool to provide practical one hand operation and compact power for cutting sheet metal and tubing was the Thor Nibbler. This ingenious Thor development does everything that a conventional portable power shear will do . . . and a great deal more besides! It cuts any shape with no sheet distortion; cuts plain or corrugated surfaces; makes inside cuts easily in sheets or tubing. Its small size and light weight give unparalleled handling ease and control for both shop production and on-the-job work.

### TAPPERS

#### *First*

portable electric tapper ever made was designed and produced by Thor. Today, Thor portable electric tappers have a simple, efficient Mechanical Reverse that saves time and effort. A slight pull on the tool disengages the forward action and throws it into reverse motion. The motor is not reversed, the action being obtained by mechanical means only.



# FOR AN INDUSTRY....

TOOLS BY *Thor*

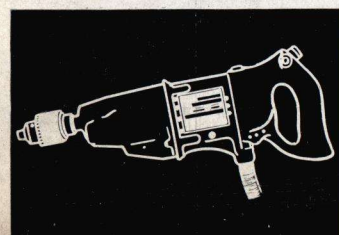
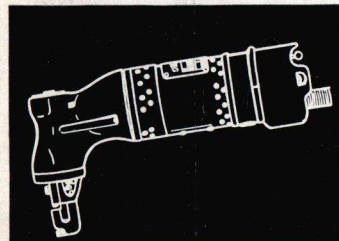
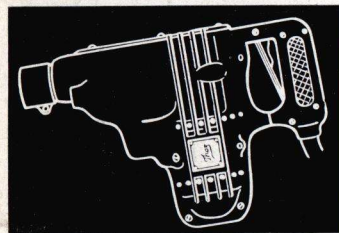
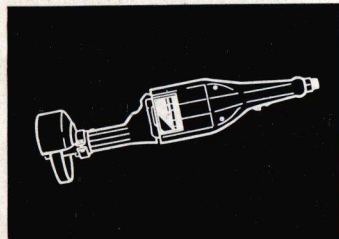
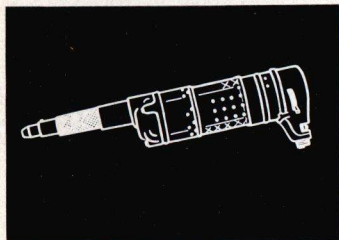
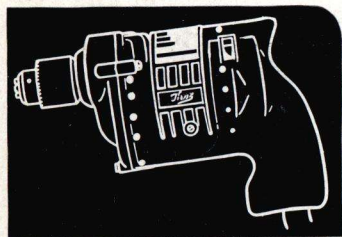


For nearly half a century every major improvement in portable electric tools has come from the Thor laboratories. It was there that the first electric screw-driver and nut-setter was conceived and built. It was there that the first portable electric tapping machine was designed. And it was there that a Thor engineer solved the once difficult problem of driving screws evenly, with the Thor friction-clutch attachment . . . and later perfected this even more for larger screws and nuts with the Thor kick-out attachment.

It was Thor engineers, too, who pioneered the field of lightness and balance in electric tools and who first built an electric drill that was substantially reduced in weight and bulk yet retained abundant power for the hardest kind of work.

Today, Thor engineers are still the pioneers — perfecting tools of more compact power and light weight convenience to accelerate industrial production; to withstand the most severe usage and to give longer life to tools in present day plants and shops.

To assure yourself of the utmost efficiency and performance from portable electric tools, consult Thor. For complete information or engineering assistance on any Thor tool write to the nearest of our branch offices in the list on the back cover of this catalog



TOOL MAKERS

# *Thor*

SINCE 1893

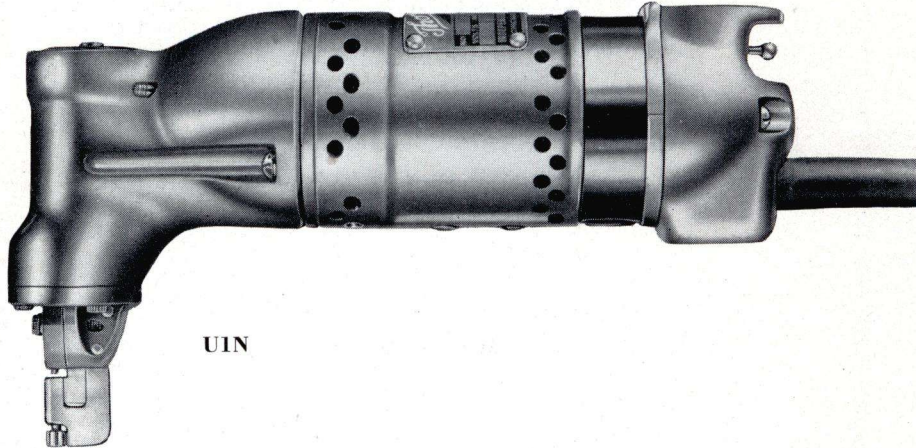
## PORTABLE ELECTRIC TOOLS





## PORTABLE ELECTRIC NIBBLER

Sheet Metal and Tube Cutting



UIN

**Capacity: No. 18 Gauge Sheet Metal; No. 15 Gauge Aluminum**

The No. UIN Nibbler is a new Thor portable electric tool that cuts sheet metal and tubing, handling the work done by the ordinary portable electric shear with surprising new ease and speed. In addition, because it cuts its own clearance, the Nibbler cuts corrugated and curved sheets without curling or distortion. Small, light, and powerful, the Nibbler will find a wide variety of applications among aircraft and automobile manufacturers, sheet metal contractors, automotive body repair shops, and in all other metal working shops.

The yoke-type front head incorporates a punch and die that "nibbles" out a rectangular shaving of metal at each upward stroke of the punch. The metal is fed at the proper rate automatically, preventing overloading and stalling. The Nibbler cuts curves and circles on a radius as small as 1"; and tubing as small as 1½" in diameter. Perfect balance and compact design provide one-hand control and make it easy to follow any line or contour with perfect accuracy.

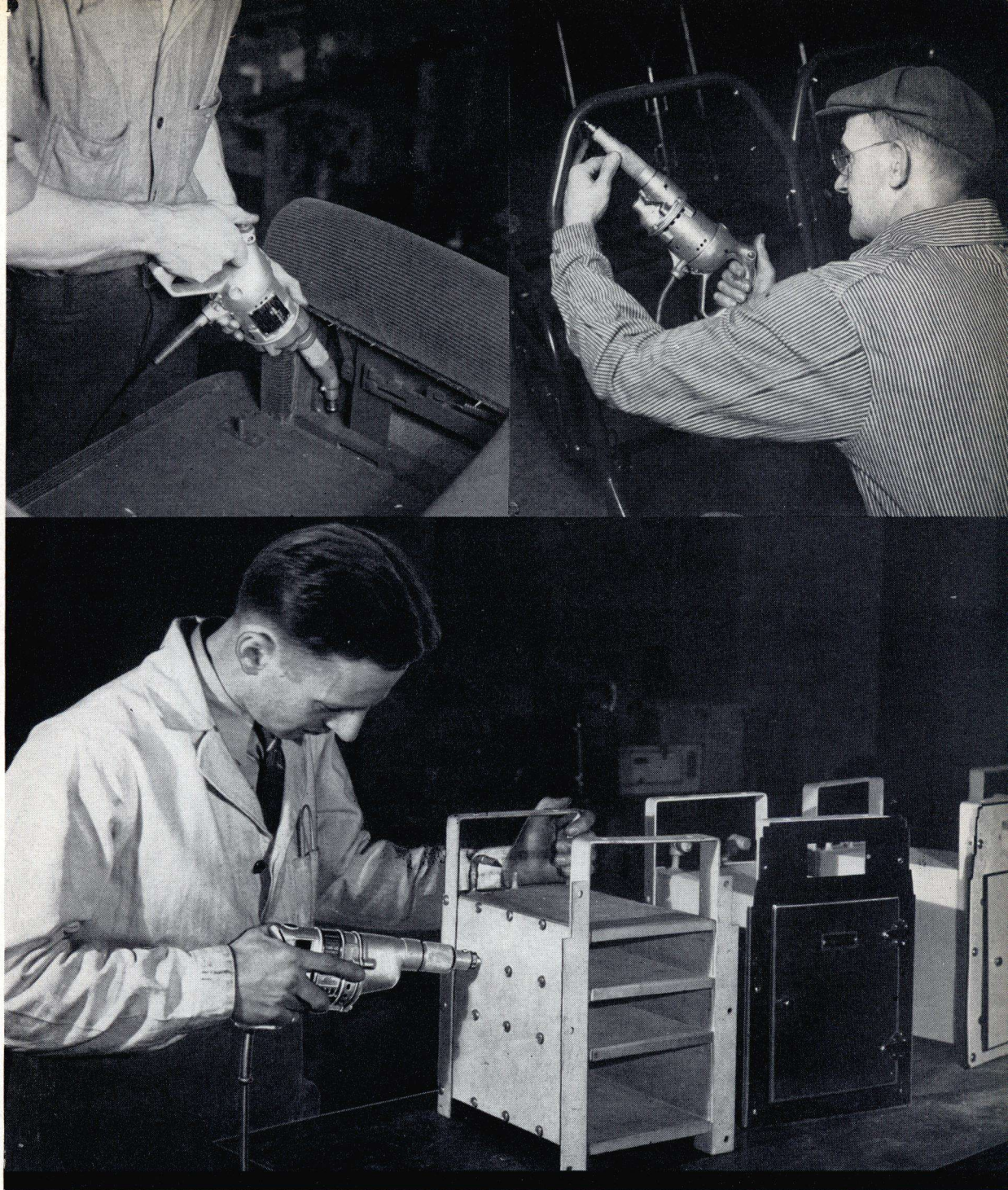
Equipped with Two-Pole Toggle Switch, Adjustable Yoke-Type Front Head and 3-conductor cable with ground wire and plug. Furnished with extra cutting blade, adjusting wrench, and wrench for clamp screw. Shipping weight, 6 lbs.

CAPACITY	SIZE NUMBER	MINIMUM CUTTING RADIUS	LENGTH OVERALL	DIAMETER OF BODY	WEIGHT POUNDS	CODE WORD	PRICE
No. 18 gauge Sheet Metal No. 15 gauge Aluminum	UIN	1"	9"	2½"	3¾	ENIBL	\$60.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**





## **SCREW DRIVERS AND NUT SETTERS**

The first portable electric screw driver and nut setter ever made was conceived and built by Thor. Today, Thor engineers are still the leaders of the field . . . still the creators . . . perfecting and producing newer and better tools to meet the demand for faster and more economical industrial production. The famous Thor "Motor Design" provides longer life for all Thor tools.





## SCREW DRIVING

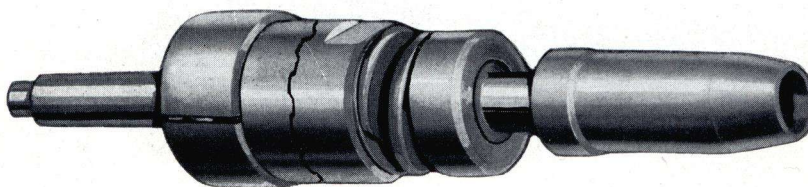
Ever since Thor engineers, years ago, built the first portable electric screw driver, the matter of driving screws and nuts quickly has been one of Thor's engineering high lights.

Today, in testimony of this, there are more Thor screw drivers and screw driving attachments made and sold than those of all the other electric tool manufacturers put together.

In this catalogue we list the standard drivers that are built to take care of the routine run of production usage. There are added to this, however, hundreds of special attachments—extensions and angles—which have been designed for particular and unusual operations, or to solve certain difficult situations peculiar to individual plants. So complete is the Thor line in this respect that there never has been a production problem that Thor engineers have not beaten.

Wherever screws are driven in quantities, wherever nuts are being set, regardless of the conditions that surround the operation, we ask you to let us put our engineers at your service. We request that you send us a sample of the hardware and the screw or nut used, giving us the size of the lead hole and the space surrounding the operation.

### SLIP CLUTCH



The Thor Double Slip Clutch Attachment for screw driving and nut setting is the most outstanding achievement of our engineers since the Thor experimental laboratory produced the first portable electric screw driver.

This Thor attachment eliminates all guess work and guarantees the correct tightness of every nut and screw driven . . . it assures 100% uniformity

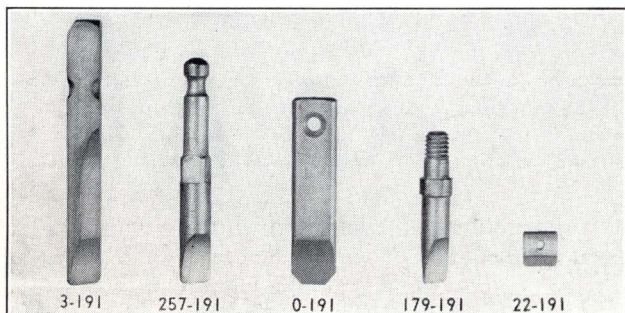
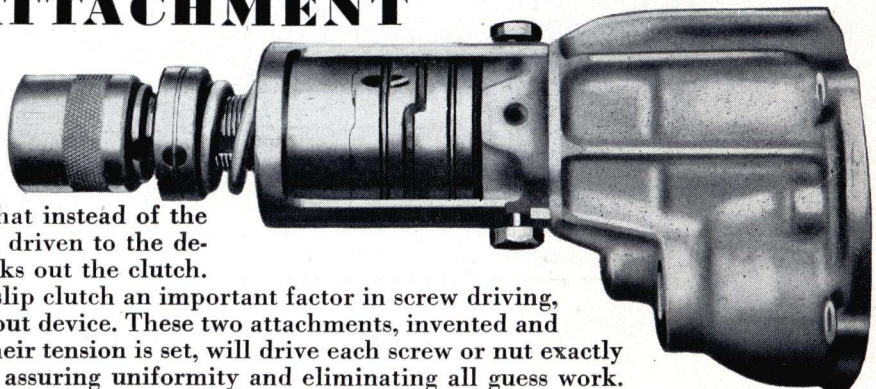
and accuracy in the tension of the nuts and screws . . . it prevents clutch breakage and wear . . . it eliminates breakage of studs and the stripping of nuts and screws . . . and it saves the operator from fatiguing jolts. The Double Slip Clutch Attachment is adjustable for any desired tension and once set will drive every screw or nut to exactly the same predetermined tension, automatically stopping its forward motion when this tension is reached.

### KICK-OUT ATTACHMENT

The Thor Kick-Out Attachment was designed a few years later than the slip, or friction, clutch, to meet the problem of driving larger nuts and screws.

Working on practically the same principle, its main difference is that instead of the clutch slipping when the screw is driven to the desired tension, it automatically kicks out the clutch.

All of the features that make the slip clutch an important factor in screw driving, are equally true of the Thor kick-out device. These two attachments, invented and created by Thor engineers, once their tension is set, will drive each screw or nut exactly the same predetermined tension, assuring uniformity and eliminating all guess work.



### SCREW DRIVING BITS AND SOCKET WRENCHES

Thor makes their own screw driving bits and socket wrenches for use with their own screw drivers and nut setters. They are made of specially heat treated steel in Thor's own plant according to individual specifications to assure the greatest possible stamina in their work. We suggest always that you send a sample of the screw or nut being driven so that the proper bit or socket will be sent, but if this should not be convenient, please indicate for what type screw and whether flat or round head and in ordering sockets give distance across the flat and whether square or hex.

**"THOR OFFERS MORE"**





## UNIVERSAL ELECTRIC TAPPERS

With Mechanical Reverse



UKS

### 1/4" Electric Tapper

The UKS is a powerful ball-bearing Electric Tapper equipped with Mechanical Reverse. A slight pull on the tool disengages the forward action and throws it into reverse motion. Particularly adaptable to metal tapping in cabinets, refrigerators, radios, aeroplanes, automobile trim work, electric switch boxes, electric appliances and railroad work. Equipped with a  $\frac{5}{16}$ " Jacobs Chuck and ground wire. Shipping weight, 11 lbs.



UBR

### 3/8" Electric Tapper

The Thor UBR Tapper is of heavier design and greater power than the UKS. It has all of the unusual features of the lighter machine and is ideal for all  $\frac{3}{8}$ " tapping. Equipped with  $\frac{3}{8}$ " Jacobs Chuck, Mechanical Reverse, grip handle with plunger switch, ground wire and Dead Handle. On neither of the above machines is the motor reversed. The action is attained by mechanical means only. Shipping weight, 14 lbs.

*The UBR can be supplied with locking device for locking either in a forward or reverse position by specifying UBX, for \$5.00 additional.*

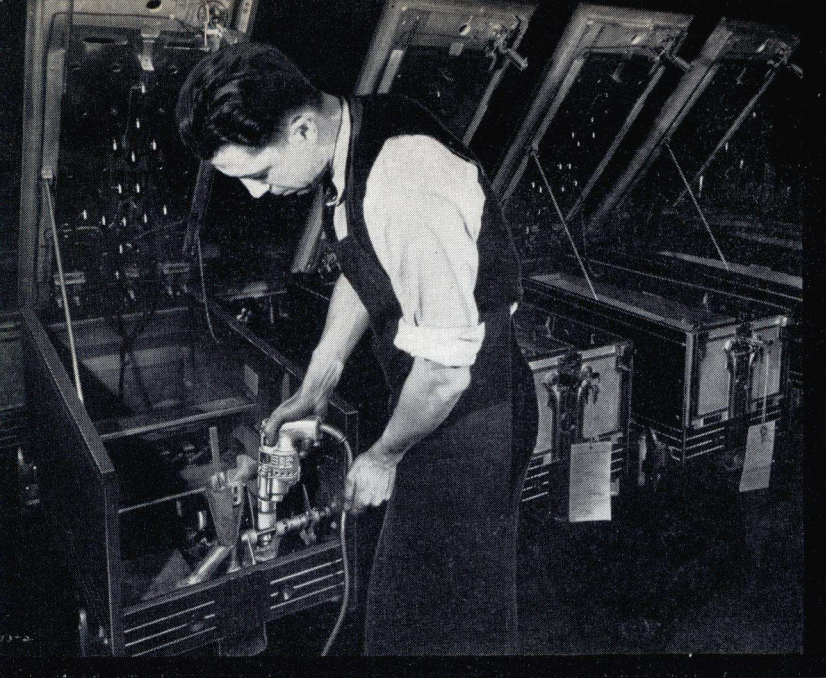
*The UBR can be supplied with momentary trigger switch instead of plunger switch, if desired, at no extra cost.*

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
1/4" tap	UKS	460	8 1/4	14 3/4	ECUKS	\$68.00
3/8" tap	UBR	500	10 1/4	16 1/2	ENBRU	85.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**

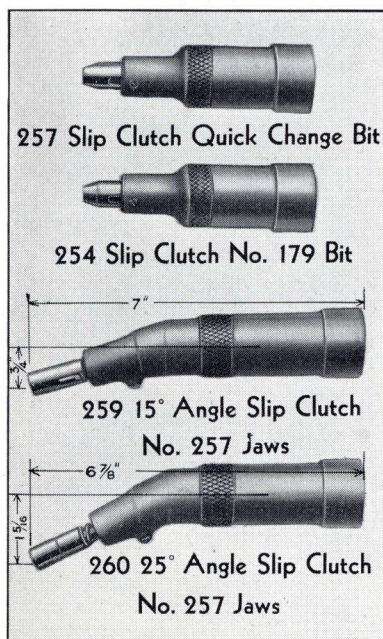




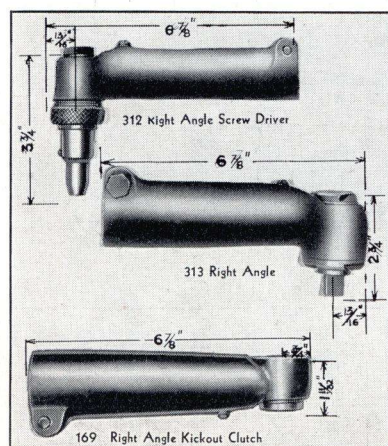
# THOR U16A SCREW DRIVER STREAMLINED FOR SUPER EFFICIENCY

In the new Thor U16A Screw Driver, Thor engineers, pioneers in the advancement of electric tool construction, have produced a screw driver with more practical, useful features than have ever before been built into a tool of this kind. They have combined light weight and small size with power and stamina to achieve a new high in efficiency and economical operation.

THESE ATTACHMENTS CAN BE FURNISHED FOR THE U16A AND U18A



THESE ATTACHMENTS CAN BE FURNISHED FOR THE U19A

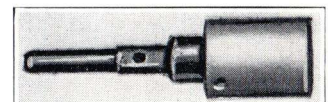


## New Economy for Production Screw Driving

In every industry with screw-driving applications . . . automobile, airplane, furniture, radio, refrigerator and numerous others . . . there has long been a need for a portable electric screw driver that would offer true one-hand operation, an extensive capacity range, and concentrated, dependable power with low upkeep costs.

By discarding all conventional concepts of portable electric screw driver design and building entirely anew, Thor engineers developed the U16A-type tools—the smallest, lightest universal electric screw drivers ever made—with a screw-driving range from No. 4 to No. 12 screws. Yet, because of the exclusive Thor “Motor Design”, with its hand-wound armature and special commutator construction, the Thor U16A type screw drivers actually have the power and stamina of tools *twice the size!*

This surplus of power and wide range of application brings new economy to production screw driving. Plants that are using slow, costly hand methods of screw driving will find that with the Thor U16A-type screw drivers they can drive screws better and faster while keeping costs at a minimum.



### SOCKETS FOR NUT SETTING

*Suitable sockets for driving nuts can be furnished for all screw-driving attachments. Specify whether for hexagon or square nuts and give distance across the flat.*

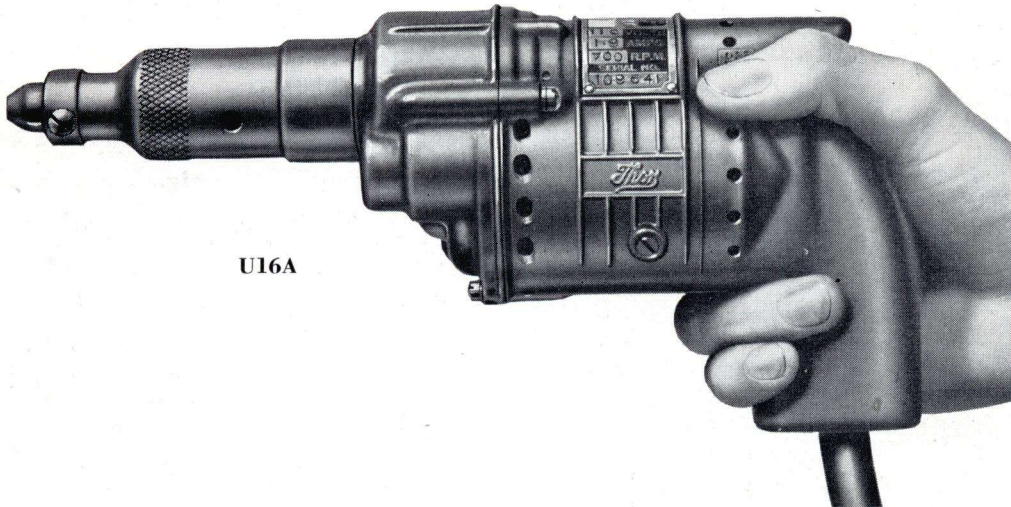
“THOR OFFERS MORE”





## UNIVERSAL ELECTRIC SCREW DRIVERS

With Slip Clutch Attachment



U16A

### Screw Drivers With Unparalleled Screw Driving Capacity

These screw drivers drive all sizes of screws from No. 4 to No. 12, providing a greater driving range than any other screw drivers obtainable. With each screw driver is included finders and bits for this entire driving range, each of which can be changed in a moment's time. Shorter and lighter, with all weight concentrated right at the operator's hand, they are truly one-hand tools. The standard U16A and U18A machines are furnished with No. 257 Slip Clutch Attachment, unless otherwise specified. The U19A is a right-angle tool. All screw drivers have ground wire. Shipping weight; U16A and U18A, 6 lbs.; U19A, 9 lbs.

No. U16CS Reversible Screwdriver. Heavy duty for production service. Drives and removes screws up to No. 12 wood screw or 1/4" machine screw. Two switches: Regular, and Reversing Switch in grip handle.

The following tools are similar to the "A" type, but have added power for production work: U16C, \$59.50; U18C, \$59.50; U19C, \$96.50. The standard U16A, U18A, U16C, and U18C can be furnished with Reversing Switch at additional cost of \$5.00.

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
#4 to #12 Screws	U16A	700	4	10½	ENUPU	\$57.00
#10 W. S. #12 M. S.	U18A	900	4	10¾	ENRUP	57.00
#12 W. S. 1/4" M. S.	U19A	350	6¾	13	ENRUS	94.00

These screw drivers can be furnished with attachments as illustrated on Page 30.

U16A or U18A with No. 257 Slip Clutch Attachment (Standard)	\$57.00
U16A or U18A with No. 254 Slip Clutch with No. 179 Bit	57.00
U16A or U18A with No. 259 15° Angle Slip Clutch with No. 257 Jaws	70.00

U16A or U18A with No. 260 25° Angle Slip Clutch with No. 257 Jaws	70.00
U19A with 312 Right Angle Attachment	94.00
U19A with No. 313 Right Angle Nut Setter	94.00
U19A with No. 169D Right Angle Nut Setter (For Close Quarters)	87.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**





## UNIVERSAL ELECTRIC SCREW DRIVERS

With Double Slip Clutch Attachment



### For No. 10-24 Metal Screws and No. 8 Wood Screws

A midget type tool. Its exceptionally light weight makes it unusually easy to handle. Equipped with the Thor Double Slip Clutch Attachment, which can be adjusted to drive screws to any predetermined tension. See description of Slip Clutch Attachment on Page 28. The ULP, the ULT and the ULN can be furnished with a lever switch which is more convenient for starting and stopping the motor when tool is suspended overhead by specifying ULPW, ULTW, or ULNW. Shipping wt., 7 lbs.

### For 1/4" Metal Screws and No. 12 Wood Screws

The UK Class Screw Drivers are more powerful than the UL Class, yet light in weight and small in size and, as a result, are easily handled. Equipped with Thor Double Slip Clutch Attachment, which makes it possible to drive screws to any predetermined tension. See description of Slip Clutch Attachment on Page 28. The UKGK is the same as the UKP in appearance but has a higher speed and is particularly adaptable for metal screws. Shipping weight, 10 lbs.

*All of these tools can be furnished with bonnet cap for screw driving in close quarters, as illustrated by the ULT. Otherwise they come equipped with grip handle. If specified, UL class machines can be furnished with suspension cap for suspending tools vertically.*

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
# 8x32 M.S.	ULN	1250	3 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	ELULN	\$52.00
# 8x32 M.S.	ULNW	1250	3 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	ELUNW	57.00
#10x24 M.S.	ULT	900	3 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	ELULT	52.00
#10x24 M.S.	ULTW	900	3 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	ELUTW	57.00
#8 W.S.	ULP	450	3 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	ELULP	54.00
#8 W.S.	ULPW	450	3 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>4</sub>	ELUPW	59.00
1/4" MS-#12 WS	UKP	400	6 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>4</sub>	KAYPO	68.00
1/4" MS-#12 WS	UKGK	750	6 <sup>3</sup> / <sub>4</sub>	14 <sup>1</sup> / <sub>4</sub>	KAYGK	68.00

For attachments available for these screw drivers see page 33.

In ordering Screw Driving Machines, state for what size screw and whether flat or round head, or send sample screws.

In ordering, specify voltage desired

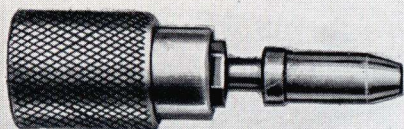
**"THOR OFFERS MORE"**





## ATTACHMENTS FOR UL CLASS SCREW DRIVERS

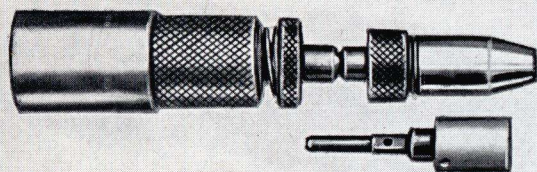
(Tools shown on page 32)



183 Positive Clutch Screw Driver



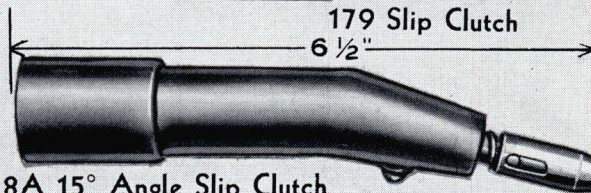
184 Positive Clutch Nut Setter



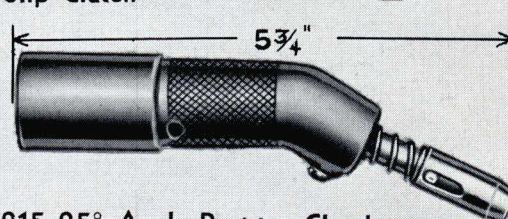
214A Slip Clutch Quick Change



179 Slip Clutch  
6 1/2"



148A 15° Angle Slip Clutch

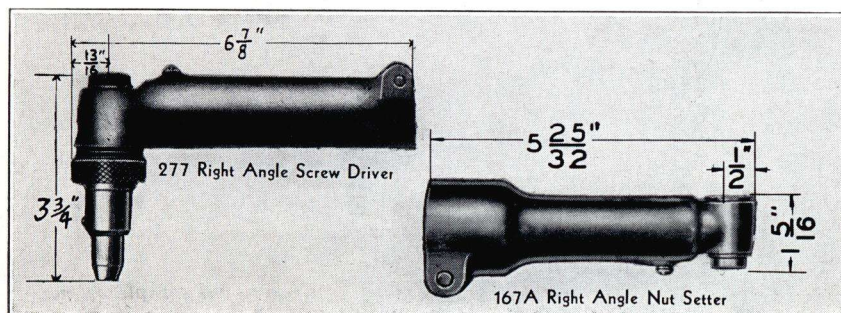


215 25° Angle Positive Clutch  
5 3/4"

### PRICES OF UL CLASS SCREW DRIVERS WITH ATTACHMENTS

NO.	DESCRIPTION	ULN ULT	ULNW ULTW	ULP	ULPW
179	Slip Clutch (Standard)	\$52.00	\$57.00	\$54.00	\$59.00
183	Positive Clutch Screw Driver	47.00	52.00	49.00	54.00
184	Positive Clutch Nut Setter	47.00	52.00	49.00	54.00
148-A	15° Angle Slip Clutch	60.00	65.00	62.00	67.00
214-A	Slip Clutch, Quick Change Bit	52.00	57.00	54.00	59.00
215	25° Angle Positive Clutch	57.00	62.00	59.00	64.00
167-A	Right Angle Nut Setter	72.00	77.00	74.00	79.00
277	Right Angle Screw Driver	84.00	89.00	86.00	91.00

### RIGHT ANGLE ATTACHMENTS FOR UL CLASS MACHINES

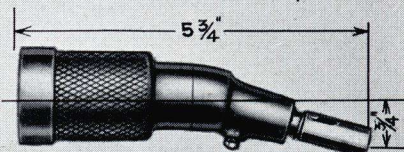


## ATTACHMENTS FOR UKP AND UKGK

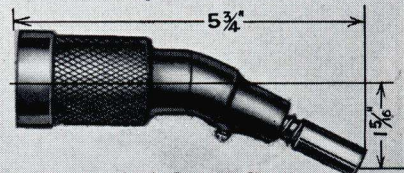
(Tools shown on page 32)



180 Slip Clutch



151 15° Angle Positive Clutch  
5 3/4"



152 25° Angle Positive Clutch  
1 5/8"

### PRICES OF UKP AND UKGK SCREW DRIVERS WITH ATTACHMENTS

180	Slip Clutch (Standard)	\$68.00
151	15° Angle Positive Clutch	68.00
152	25° Angle Positive Clutch	68.00

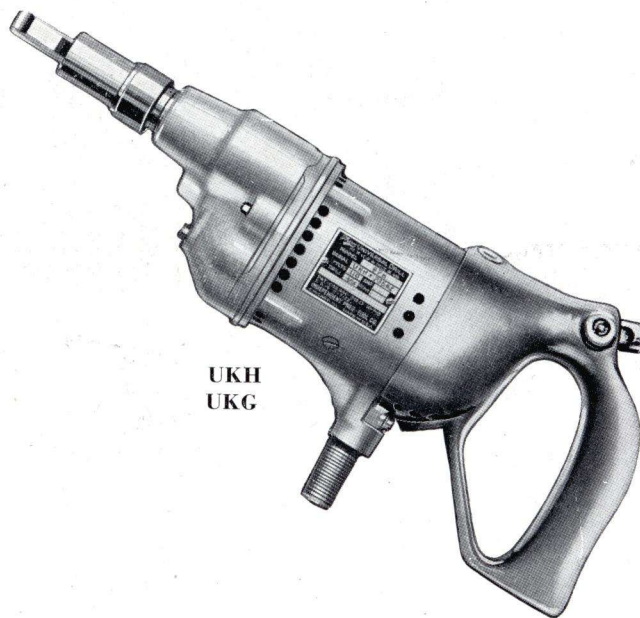
"THOR OFFERS MORE"





## UNIVERSAL ELECTRIC SCREW DRIVERS

With Positive Clutch Attachment



### Electric Screw Drivers for 1/4" Metal or No. 12 Wood Screws

The UKG is a rugged production screw driver and like all Thor tools, is of ball-bearing construction. It is equipped with a Positive Clutch Attachment, a Grip Switch Handle, and a ground wire. Shipping weight, 11 lbs.

The UKH is a slower speed screw driver with more torque than the UKG. It is also equipped with a Positive Clutch Attachment, a Grip Switch, and a ground wire. Shipping weight, 11 lbs.

- In ordering Screw Driving Machines, please state for what size screw and whether flat or round head, or send sample screw.

CAPACITY	SIZE NUMBER	FREE SPEED R.P.M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
1/4" M.S. or	UKG	750	6	12 5/8	KAYEG	\$58.00
No. 12 W.S.	UKH	400	6	12 3/4	KAYHE	58.00

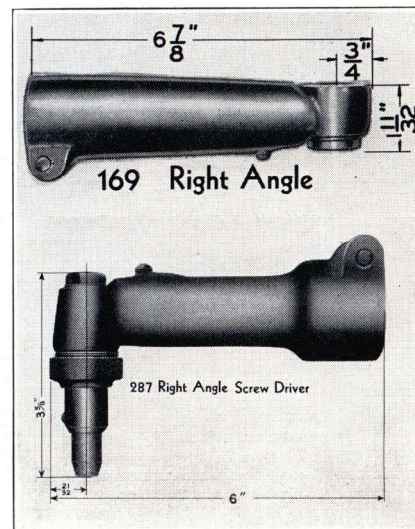
#### PRICES OF UKH AND UKG SCREW DRIVERS WITH ATTACHMENTS

Attachments for UKH and UKG Screw Drivers shown on page 35.

O Positive Clutch Attachment (Standard)	\$58.00
AO Positive Clutch Attachment	60.50
185 Slip Clutch Attachment	63.00
182 Positive Clutch Attachment	58.00
22-32-42 Positive Clutch Attachment	58.00
186 Slip Clutch Attachment	63.00
100 Positive Clutch	55.00
102 Universal Joint Nut Driver Attachment	58.00
169D Right Angle Nut Setter	88.00
287 Right Angle Screw Driver	97.00
224 Slip Clutch, Quick Change Attachment	63.00

In ordering, specify voltage desired

#### RIGHT ANGLE ATTACHMENTS FOR UKH AND UKG SCREW DRIVERS



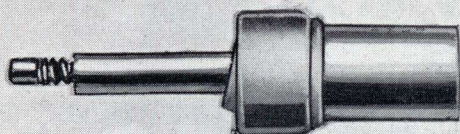
**"THOR OFFERS MORE"**





## ATTACHMENTS FOR UKH AND UKG SCREW DRIVERS

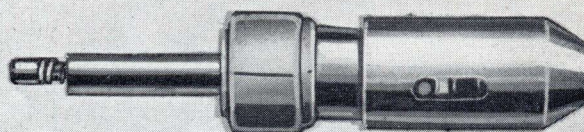
(Tools shown on page 34)



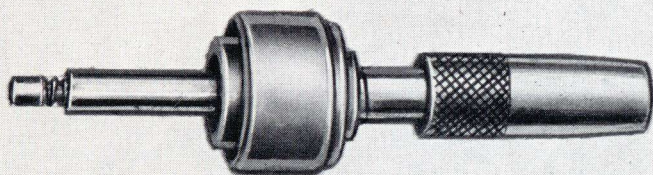
O Positive Clutch



185 Slip Clutch



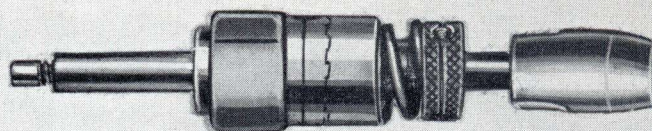
AO Positive Clutch



22, 32, 42 Positive Clutch



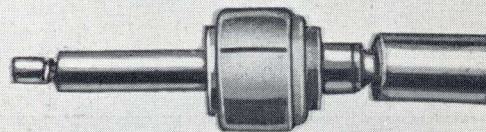
182 Positive Clutch



186 Slip Clutch Nut Setter



100 Positive Clutch Nut Setter



102 Universal Joint Nut Driver



224 Slip Clutch Quick Change





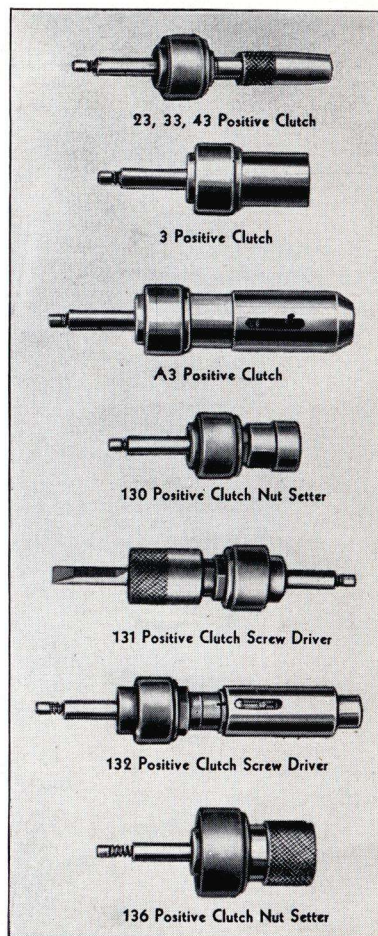


# UNIVERSAL ELECTRIC SCREW DRIVERS

With Positive Clutch Attachment



THESE ATTACHMENTS CAN BE FURNISHED FOR THE UBG



## For No. 10 to No. 16 Wood Screws

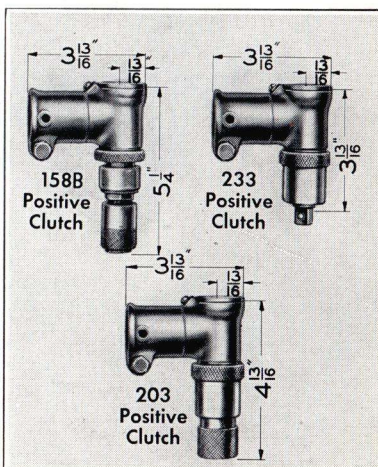
The UBG is a Grip-Handle, Plunger-Switch type tool that will do fast and accurate screw driving with perfect satisfaction. If desired, it can be furnished with Momentary Trigger Switch. It is equipped with No. 3 Positive Clutch Attachment as standard but, like all Thor Screw Drivers, can be furnished with a variety of attachments for difficult screw and nut driving jobs. Furnished with ground wire.

*The UBG can be furnished as a 1/4" capacity Nut Setter fitted with No. 234 Positive Clutch non-rotating Nut Setting Attachment which accommodates 1/8" hexagon socket shank by specifying UBP; Code Word, ENBUP; price, \$74.00. In ordering Screw Driving Machines, please state for what size screws and whether flat or round head, or send sample.*

CAPACITY	SIZE NUMBER	FREE SPEED R.P.M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
No. 10 to 16 W.S.	UBG	750	8 3/4	14 1/2	ENDRI	\$72.00

### PRICES OF UBG SCREW DRIVERS WITH ATTACHMENTS

3 Positive Clutch Attachment (Standard)	\$72.00
23, 33, 43 Positive Clutch Attachment	72.00
A3 Positive Clutch Screw Driver Attachment	74.50
130 Positive Clutch Nut Setter Attachment	69.00
131 Positive Clutch Screw Driver Attachment	72.00
132 Positive Clutch Screw Driver Attachment	77.00
136 Positive Clutch Nut Setter Attachment	72.00
158B Right Angle Nut Setter	107.00
203 Right Angle Nut Setter	107.00
233 Right Angle Nut Setter	107.00



In ordering, specify voltage desired

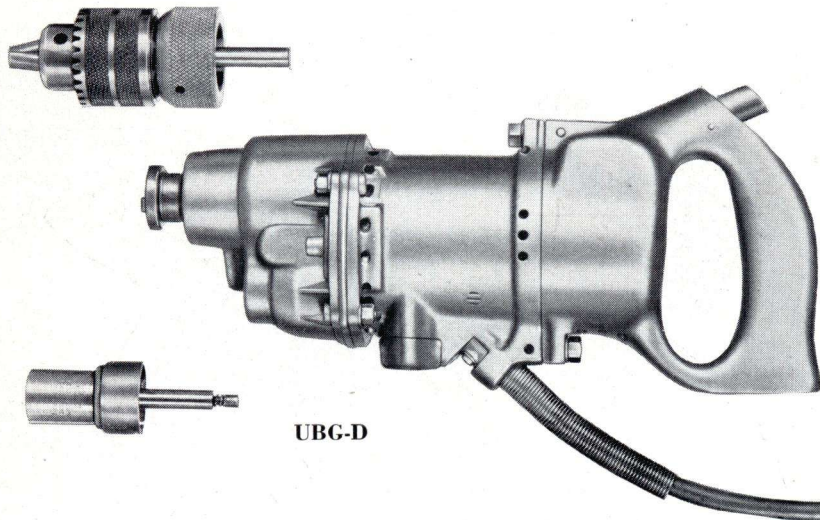
**"THOR OFFERS MORE"**





# COMBINATION SCREWDRIVER AND DRILL

Heavy Duty



UBG-D

## For No. 10 to No. 16 Wood Screws; $\frac{3}{8}$ " Heavy-Duty Drilling

This combination tool fills a very definite need existing in shops where both drilling and screw driving are done, but where the limited amount of each operation does not warrant the purchase of two tools. By means of specially designed Jacobs chuck and Adaptor, the UBG-D can be quickly converted from a heavy-duty screwdriver or nutsetter into a drill for heavy duty  $\frac{3}{8}$ " drilling. The No. 3 Positive Clutch Attachment for screw driving and the No. 372  $\frac{3}{8}$ " Jacobs Chuck and Adaptor are standard equipment. The UBG-D is a Grip Handle, Plunger Switch type tool, but is available with a Momentary Trigger Switch, if so specified. Equipped with ground wire.

The UBG-D can also be supplied with the following other attachments for screw driving and nut setting (prices include No. 372 Chuck and Adaptor):

No. A3 Positive Clutch Screw Driver Attachment .....	\$84.50
No. 130 Positive Clutch Nut Setter Attachment.....	79.00
No. 131 Positive Clutch Screw Driver Attachment.....	82.00
No. 132 Positive Clutch Screw Driver Attachment.....	87.00

See page 36 for illustrations of above attachments.

*In ordering screw driving machines, please state for what size screws and whether flat or round head, or send sample of screws.*

CAPACITY	SIZE NUMBER	FREE SPEED R.P.M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
No. 10 to 16 Wood Screws $\frac{3}{8}$ " Drill Chuck	UBG-D	750	9	14	ENBUD	\$82.00

In ordering, specify voltage desired

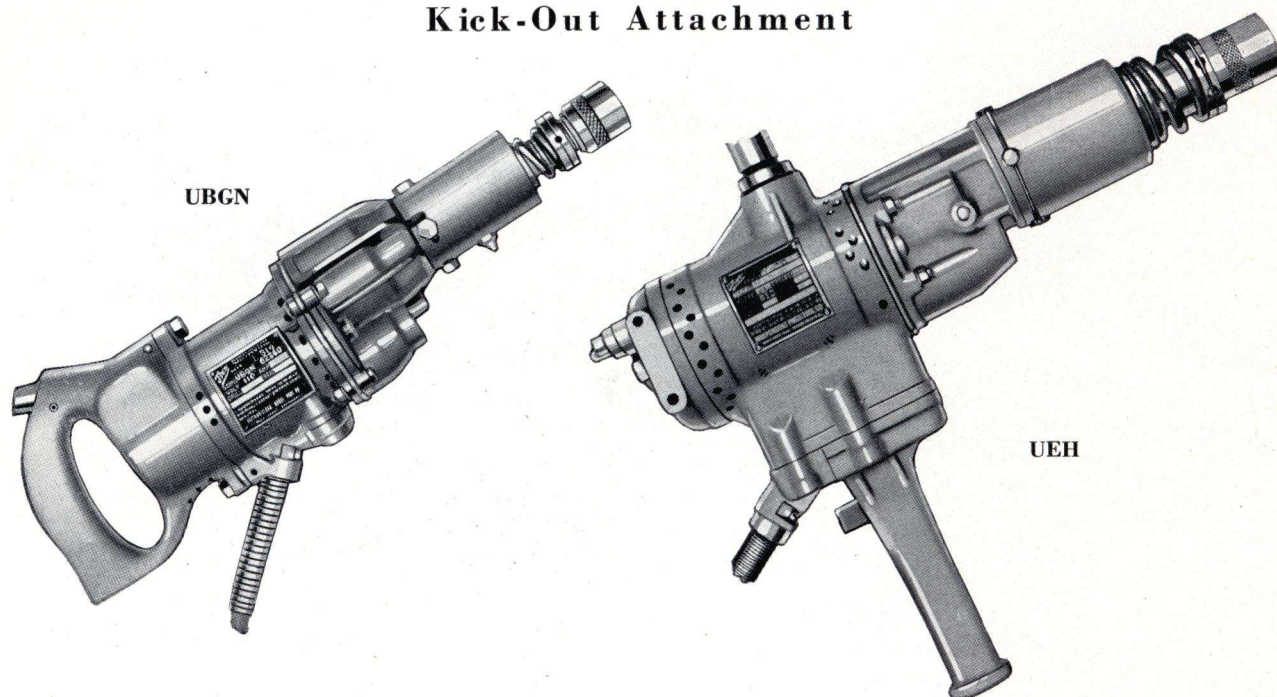
**"THOR OFFERS MORE"**





# **$\frac{1}{4}$ and $\frac{1}{2}$ -Inch UNIVERSAL ELECTRIC NUT SETTERS**

**Kick-Out Attachment**



## **$\frac{1}{4}$ " Electric Nut Setter**

A small nut driving machine for  $\frac{1}{4}$ " nuts, this tool is equipped with a kick-out attachment as illustrated on page 28. Particularly advantageous for continuous production work, its light weight makes it easy for the operator to handle and permits quick, certain action. It has grip handle with plunger switch, ground wire, and is furnished with the Thor No. 140 kick-out attachment. If desired, it can be furnished with momentary trigger switch instead of plunger switch. Shipping weight, 15 lbs.

## **$\frac{1}{2}$ " Electric Nut Setter**

The UEH pictured above is for heavy duty nut driving up to its capacity. Sturdy and powerful, it can be used for continuous service on the most difficult operations. It is furnished with a side switch, ground wire and a No. 141 kick-out attachment which drives the nuts to any predetermined tension, as described on page 28. Either a grip handle or a suspension cap and hook can be supplied. Shipping weight, 33 lbs.

*The UBGN can be furnished with No. A135 Positive Clutch Attachment, which is similar in appearance to attachment illustrated on machines on page 39. Can also be furnished with Reversing Switch at additional charge.*

*The Thor UCH has the same equipment as the UEH but is intended for lighter work. The light weight of this machine makes it desirable for ordinary  $\frac{1}{2}$ " nut setting. Shipping weight, 27 lbs.*

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{4}$ " Nut	UBGN	750	12 $\frac{3}{4}$	17 $\frac{1}{4}$	EUBGN	\$ 84.00
$\frac{1}{2}$ " Nut Light Duty	UCH	450	15 $\frac{1}{2}$	16 $\frac{1}{4}$	ENWCH	110.00
$\frac{1}{2}$ " Nut Heavy Duty	UEH	550	23 $\frac{1}{4}$	17 $\frac{1}{2}$	ENEUH	135.00

*In ordering Nut Driving Machines, please specify whether for hexagon or square nut and give distance across the flats.*

*In ordering, specify voltage desired*

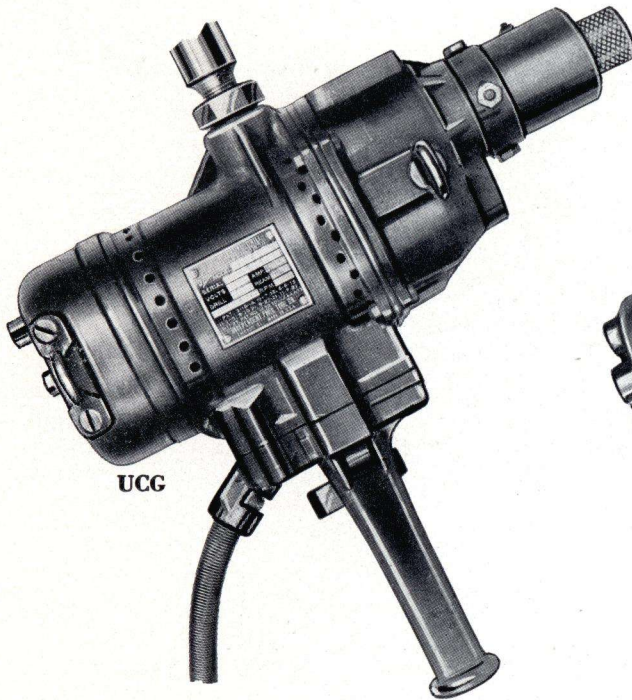
**"THOR OFFERS MORE"**



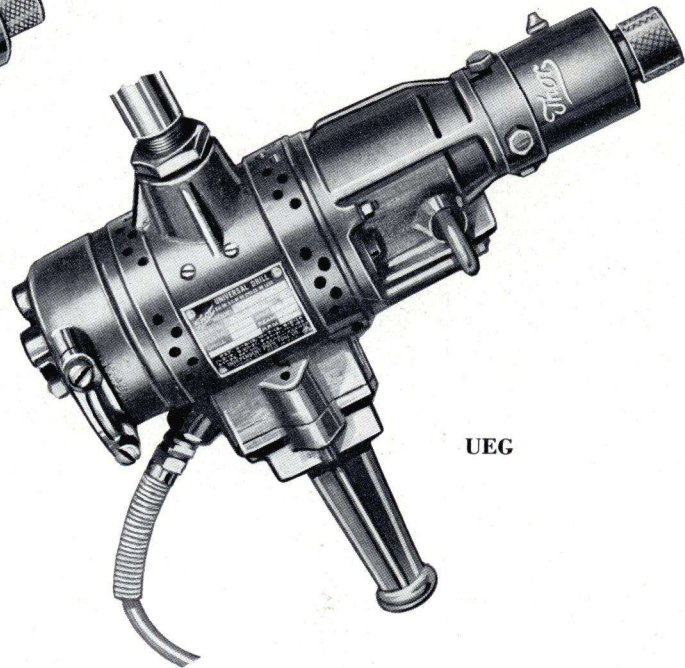


## **$\frac{3}{8}$ and $\frac{1}{2}$ -Inch UNIVERSAL ELECTRIC NUT SETTERS**

**Positive Clutch Attachment**



UCG



UEG

### **$\frac{3}{8}$ " and $\frac{1}{2}$ " Nut Setter**

A powerful, sturdy nut driving machine used particularly on production because of its light weight. Ordinarily furnished with a grip handle, it also can be obtained, however, with a suspension cap and hook. This enables the operator to suspend the tool over the production line and makes for easier handling. It is furnished with a side switch and a No. A136 Positive Attachment. Shipping weight, 27 lbs.

### **$\frac{1}{2}$ " Heavy Duty Nut Setter**

A sturdier, heavier tool with more power than the UCG, this  $\frac{1}{2}$ " nut setter is put on difficult jobs where constant, severe service is required. Equipped with a positive clutch attachment. This tool also can be furnished with a suspension cap and hook, if specified. Otherwise, it is equipped with a grip handle. Like the UCG, it comes with a side switch and a No. A136 Positive Attachment. Shipping weight, 33 lbs.

• *In ordering Nut Driving Machines, please specify whether for hexagon or square nut and give distance across the flats.* •

CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
$\frac{1}{2}$ " Nut Light Duty	UCG	450	15 $\frac{1}{2}$	13 $\frac{3}{4}$	ENWCG	\$ 94.00
$\frac{1}{2}$ " Nut Heavy Duty	UEG	550	23	15	ENEUG	120.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**





## **GRINDERS, SANDERS AND POLISHERS**

In Thor Grinders, Sanders and Polishers the recognized superiority in efficiency of all Thor Tools is maintained. In addition, exclusive features of construction, developed in the Thor testing and experimental laboratories, enable these tools to combine maximum performance with long life and low upkeep. An example of this is the patented "Shock-Absorber" spindle on Thor Portable Grinders which absolutely prevents vibration from reaching the motor.





## UNIVERSAL ELECTRIC SANDER

Light Duty



### 7" Portable Electric Sander

An Electric Sander, compact and powerful, for use in sanding, grinding, cleaning, preparing automobile bodies and fenders for paint jobs, smoothing wood surfaces and every application which might involve sandpaper or emery. Perfect balance and ease of handling permit most efficient operation. Full ball-bearing construction gives wheel maximum torque. The accurately cut gears are of heat treated alloy steel. Sander can be taken apart for inspection or cleaning with exceptional ease. Motor can be inspected while operating simply by removing two brush covers. Side handle can be used on either side of machine. Equipped with ground wire. Furnished with 7" flexible rubber pad and a box of three assorted abrasive discs. Shipping weight, 13 lbs.

DISC CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS LESS PADS	LENGTH INCHES	CODE WORD	PRICE
7"	U58	4000	9½	14¼	ENODI	\$48.00

In ordering, specify voltage desired

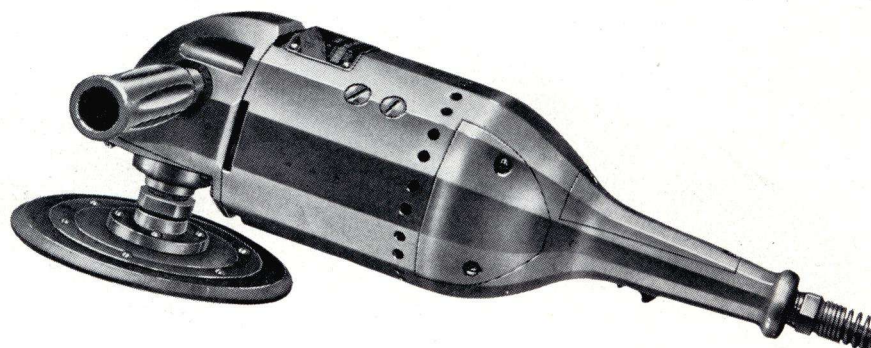
**"THOR OFFERS MORE"**





## UNIVERSAL ELECTRIC SANDERS

Heavy Duty



U68  
U69

### 7" and 9" Portable Electric Sanders

Into the U68 heavy duty seven-inch and U69 standard 9" sanders has been built a motor with surplus power to make these tools ideal for the most difficult sanding jobs where constant, severe service is required. The powerful motor not only enables them to do more work but also provides a factor of safety which greatly lengthens motor life.

Although employing heavier construction throughout, the U68 and U69 are of the same design as the U58 Light Duty Sander shown on page 41. The same features of perfect balance, ease of inspection and cleaning, and abundant power assure efficient operation. Side handle can be used on either side of machine. U68 equipped with 7" flexible rubber pad; U69 equipped with 9" flexible rubber pad. A box of 3 assorted abrasive discs is furnished with both tools. Shipping weight, 24 lbs. Equipped with ground wire, detachable side handle and straight switch handle.

The U67 machine is identical with the U68 model except that it is equipped with cone shaped cup wheel 6" x 2" x  $\frac{7}{8}$ " hole; and longer spindle to give additional bearing support to grinding wheel. The U67 is provided with Adjustable Wheel Guard, if so specified.

DISC CAPACITY	SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS LESS PADS	LENGTH INCHES	CODE WORD	PRICE
7"	U68	4200	16 $\frac{1}{2}$	16 $\frac{3}{4}$	ENODU	\$75.00
9"	U69	4200	16 $\frac{1}{2}$	16 $\frac{3}{4}$	ENODY	78.00
6" Cup Wheel	U67	4200	16 $\frac{1}{2}$	16 $\frac{3}{4}$	ENODO	75.00

In ordering, specify voltage desired

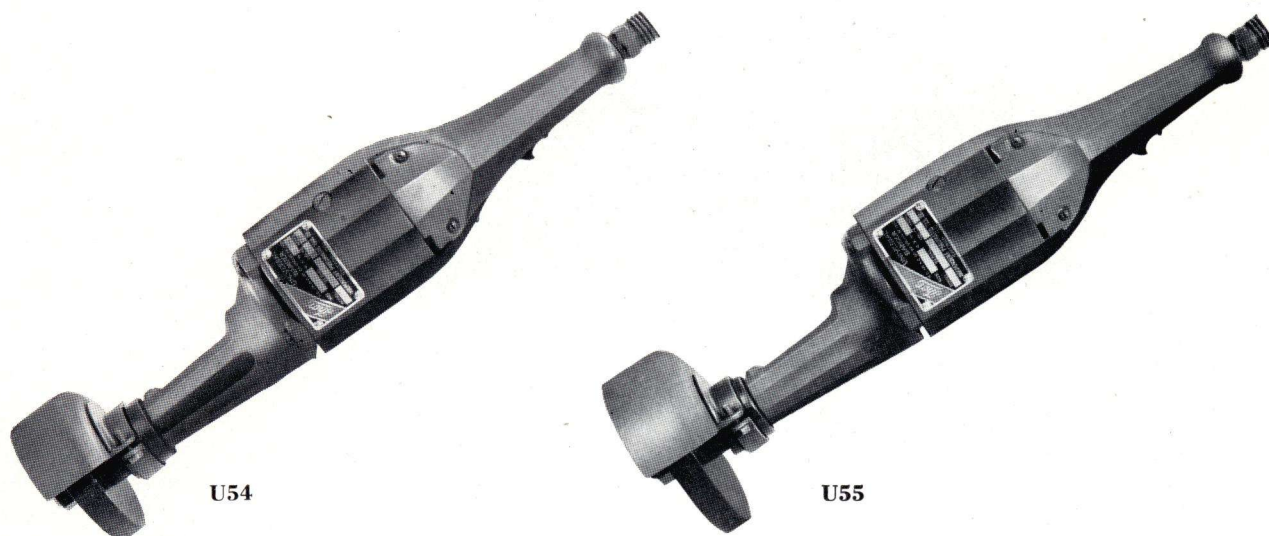
**"THOR OFFERS MORE"**





## UNIVERSAL ELECTRIC GRINDERS

### General Purpose



### 4" and 5" Portable Electric Grinders

The U54 is a powerful electric grinder for use with 4" diameter grinding wheels. The U55 is for 5" wheels. Like all Thor portable grinders, they provide unusually smooth operation because of the Thor "Shock-Absorber" Spindle. In addition the modern, streamlined design, compact construction and light weight facilitate ease of handling.

Heat-treated, alloy-steel, spiral, helical gears greatly reduce noise and prolong the life of the gear teeth. The armature and spindle are provided with large over-size ball-bearings with convenient means for lubrication. The outer end of the spindle support has a Labyrinth Grease Seal and is reinforced with a steel hub where the wheel guard is clamped.

Both the U54 and U55 are furnished with a ground wire, a Wheel Guard and 10 Ft. of Cable. Spindle thread is  $\frac{1}{2}$ " x 13; Spindle Offset 1". Shipping weight, 18 pounds. The grinding wheel is not included in the price of the complete tool. To order wheels see page 47.

WHEEL CAPACITY	SIZE	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
4"	U54	6000	10	19 $\frac{1}{2}$	EGNEX	\$62.00
5"	U55	4500	10 $\frac{1}{4}$	19 $\frac{1}{2}$	EGNEY	80.00

In ordering, specify voltage desired

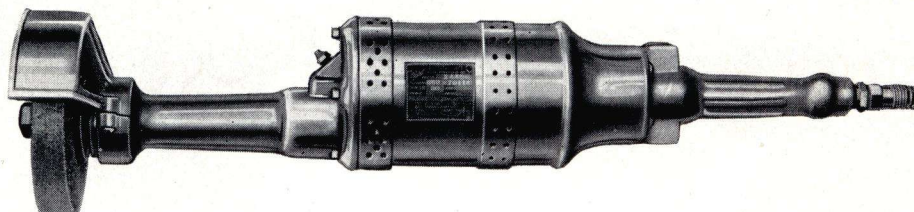
**"THOR OFFERS MORE"**





## UNIVERSAL ELECTRIC GRINDER

Heavy Duty



### 6" Portable Electric Grinder

The Thor U60 grinder is a rugged tool designed to do a heavy production job efficiently and economically. It is powerful yet it is easy to handle and convenient to use.

The U60 lowers maintenance cost because it is equipped with the reliable Thor motor and the "Shock-Absorber" spindle that protects the motor from vibrations during the grinding operation.

This grinder is equipped throughout with alloy-steel, heat-treated, spiral gears and oversize ball-bearings. It has a ventilation system that keeps the motor from overheating even when it is operated continuously.

The U60 can be used on alternating or direct current, but it can be furnished for direct current only if so specified. The spindle thread is  $\frac{5}{8}$ " x 11. Shipping weight, 32 lbs. The wheel is not included in the price of the complete tool. To order wheels see page 47.

WHEEL CAPACITY	SIZE	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
6"	U60	4000	20	24 $\frac{1}{2}$	EGNEW	\$100.00

In ordering, specify voltage desired

**"THOR OFFERS MORE"**

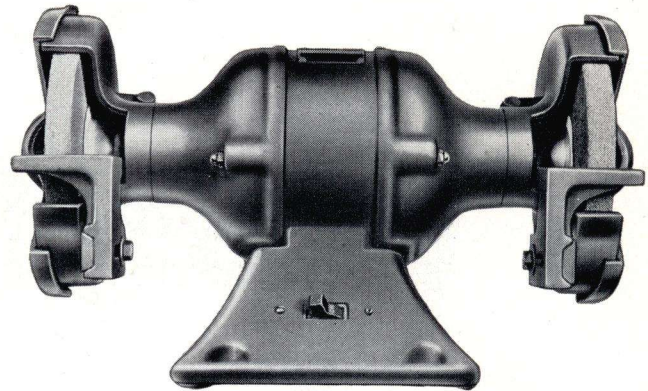




## ELECTRIC BENCH GRINDERS



BG-66



BG-7

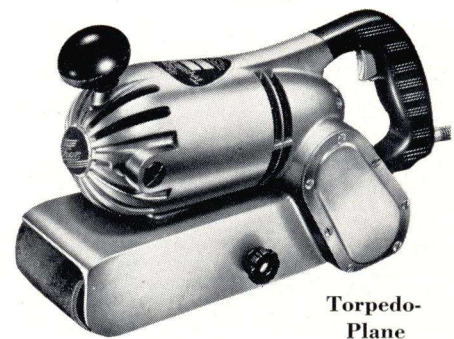
The bench grinders listed below are unusually powerful, all purpose grinders, equipped with six inch and seven inch wheels. Smooth running and noiseless. Free from vibration. Ball-bearings throughout. Motors are completely enclosed. Housing construction and location of bearings make these grinders oil and dust proof. Adjustable tool rests. Extra heavy wheel guards. Can be equipped with wire wheel brushes or buffing wheels. BG-66 furnished for 110-volt 60 cycles A.C. only. Others furnished in 50 or 60 cycles A.C. or for direct current. Specify whether for alternating or direct current. Shipping weight, BG-66, 48 lbs.; BG-6, 51 lbs.; BG-7, 76 lbs. *Shatter-proof Safety Eye Shields can be furnished for these grinders; see page 47.*

SIZE	WHEEL SIZE	VOLTAGE	FREE SPEED R. P. M.	WEIGHT POUNDS	CODE WORD	PRICE
BG-66	6"	110 A.C. only	3550	35 $\frac{1}{4}$	EUDAX	\$32.00
BG-6	6"	110	3550	40	EUDAF	42.00
BG-6	6"	220	3550	40	EUDAG	42.00
BG-7	7"	110	3550	51	EUDAR	56.00
BG-7	7"	220	3550	51	EUDAS	56.00

## PORTABLE BELT SANDERS

Thor Sanders are available in three types, models 7 and 8, and the Torpedo-plane. Illustrated is the Torpedo-plane, an entirely new model, streamlined . . . light in weight . . . and easy to handle. The standard model has a speed of 1200 ft. per minute. For sanding softer materials, the Torpedo-plane is also available at a speed of 600 ft. per minute, if so specified. Models 7 and 8 are equipped with a bakelite enclosed two-pole toggle switch. Models 7 and 8 are alike, except that model 8 has dust collecting system. Belts on all models cannot slip or shift . . . can be changed quickly.

All models equipped with one medium grade sanding belt; base pad; 10 feet of rubber covered cable; tube of lubricant. Shipping weights, No. 7, 28 lbs.; No. 8, 38 lbs.; TP, 24 lbs.



Torpedo-Plane

SIZE NUMBER	BELT SPEED PER MINUTE	BELT SIZE	WEIGHT POUNDS	SIZE OVERALL	CODE WORD	PRICE
TP	1200 ft.	3" x24 $\frac{1}{4}$ "	13 $\frac{1}{4}$	4 $\frac{1}{4}$ "x13 $\frac{1}{4}$ "x7" high	ENSKR	\$ 82.50
7	1500 ft.	4 $\frac{1}{2}$ "x26"	18	7"x14"x9" high	ENSKG	95.00
8	1500 ft.	4 $\frac{1}{2}$ "x26"	22	7"x14"x12" high	ENSKH	125.00

In ordering, specify voltage desired

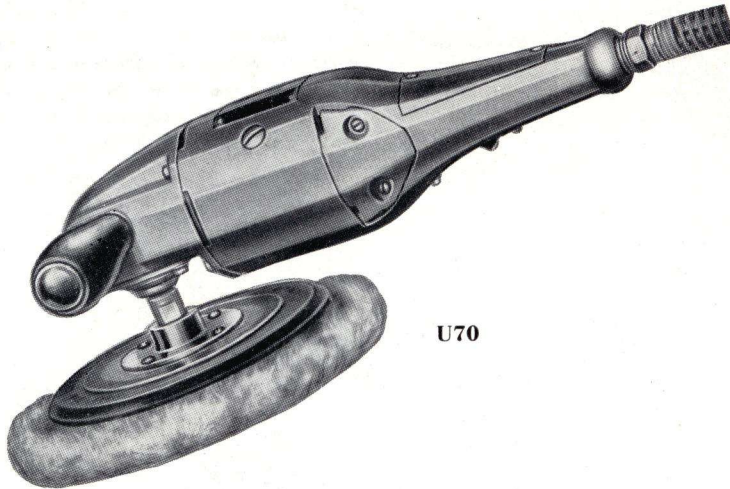
**"THOR OFFERS MORE"**





## UNIVERSAL ELECTRIC POLISHERS

Heavy Duty



U70

### Portable Electric Polishers

These machines handle any polishing job quickly and efficiently. They are rugged tools, equipped with a powerful Thor motor, perfectly balanced and easy to handle. The armature and the spindle run on ball-bearings and the gears are made of heat treated alloy steel. These tools are constructed so that motor can be inspected while operating by simply removing two brush covers. The handle can be used on either side of the machine to accommodate the operator. Both tools are of the heavy duty type, but the U70 is designed for extensive heavy duty production when difficult surfaces must be polished continuously. Both the U38 and the U70 are equipped with one 7" flexible rubber pad; one 7" felt pad; and one 8" lambswool pad. Shipping weight, U38, 16 pounds; U70, 24 pounds.

SIZE NUMBER	FREE SPEED R. P. M.	WEIGHT POUNDS	LENGTH INCHES	CODE WORD	PRICE
U38	1950	7 $\frac{3}{4}$	13 $\frac{3}{4}$	ENODA	\$65.00
U70	2300	16 $\frac{1}{2}$	16 $\frac{3}{4}$	ENOFA	75.00

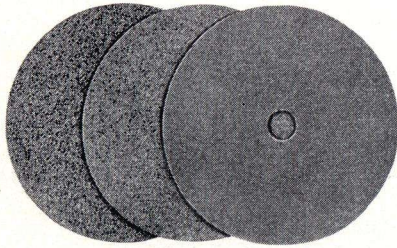
In ordering, specify voltage desired

**"THOR OFFERS MORE"**





## ACCESSORIES FOR GRINDERS, SANDERS and POLISHERS

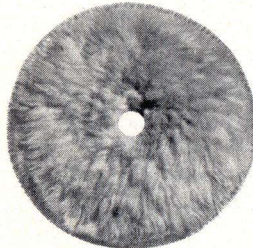


### Sanding Discs

Sanding and emery discs for the U58, U68 and U69 Thor Sanders are available in three grades: coarse, medium and fine. Type DS discs are particularly adaptable to metal; type X, to wood-work.

GRIT	GRADE	SYMBOL NO.	PRICE EACH	PRICE PER 100	SYMBOL NO.	PRICE EACH	PRICE PER 100
24	DS	59602	\$.21	\$20.68	59610	\$.28	\$27.56
36	DS	59603	.21	20.25	59611	.27	26.96
80	DS	59604	.17	16.94	59612	.23	22.58
1-50	X	59605	.17	16.94	59613	.23	22.58
1/0-80	X	59606	.17	16.94	59614	.23	22.58
3/0-120	X	59607	.17	16.94	59615	.23	22.58

These discs are shipped in packages of 25.



### Lambswool Polishing Pad

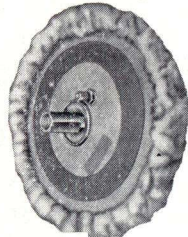
The Lambswool Polishing Pad is used both for polishing and cleaning. It quickly banishes dirt and stain to produce a high lustre that closely approximates the original finish.

No. 61112 Lambswool Polishing Pad for 7" Polisher. Single Pad, \$1.25.

No. 64436 box of six Lambswool Polishing Pads for 7" Polisher, \$7.00 per box.

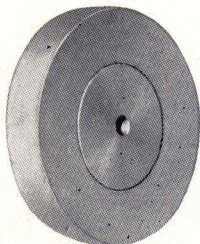
### Pneumatic Pad

For safer, quicker, more thorough polishing. An air cushioned pad of "controlled flexibility" that hugs rounded curves and surfaces, gets into cracks and crevices. No. 66720; Price, including Adapter, \$9.95. No. 66719, Lambswool Bonnet for Pneumatic Pad, \$1.50.



### Cloth Buffing Wheel

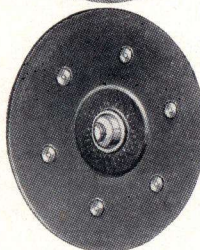
This Cloth Buffing Wheel is made of cotton rag and serves very well on light buffing work. For BG-6 and BG-66 Bench Grinders and for U54 and U55 Portable Grinders, size, 6" diameter; thickness 1/2"; hole 1/2" diameter, catalog No. 64419, \$0.60 each. Box of five wheels \$2.75. For U60 Portable Grinder, size, 6" diameter; thickness 1/2"; hole 5/8" diameter, catalog No. 64420, \$0.60 each. Box of five wheels, \$2.75.



### Flexible Pad and Replacement Pads

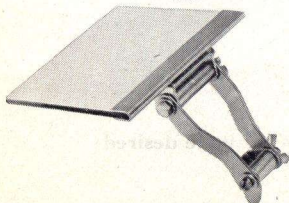
No. 59568 Flexible Pad complete for U38 and U70 Polishers and U58 Sander, 7" size, \$7.00. No. 59609 Flexible Pad complete for U69 Sander, 9" size, \$8.25.

No. 64421 Replacement Flexible Rubber Pad for 7" pad \$2.25. No. 64422 Replacement Flexible Rubber Pad for 9" pad, \$3.50.



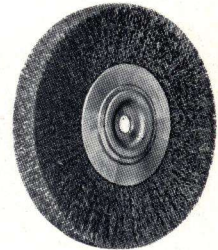
### Safety Glass Eye Shields for Bench Grinders

These Safety Eye Shields can be attached to any Thor Bench Grinder by bolting to the wheel guard. They give a full view of the grinding wheels and the work through the 5" x 6" shatterproof safety glass. Fully adjustable; can be arranged in front of wheel at any angle or position desired. Packed in pairs complete with bolts. Symbol No. 64482; price, \$2.50 per pair.



### Wire Wheel Brushes

For cleaning, brushing and polishing in foundry work, castings and moulds, gears, storage batteries and dry battery parts, welds, scale from forged and hardened parts, brass and copper before brazing or polishing automobile body work, stove work, etc.



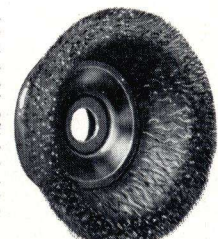
CATALOG NUMBER	WHEEL DIAMETER	HOLE DIAMETER	GAUGE WIRE	PRICE
64462	4"	1/2"	30	for 5" Portable Grinder \$1.75
64423	6"	1/2"	30	for 6" Bench Grinder 2.50
59661	6"	5/8"	30	for 6" Portable Grinder and 7" Bench Grinder per section 1.00

Standard Brush for 6" Portable and 7" Bench Grinders, consists of 3 sections \$3.00

### Wire Cup Brushes



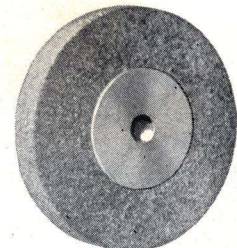
For cleaning castings, tanks, brick and stone surfaces, structural steel and sheet metal, removing paint, rust, etc. On U58 7" Sander attaches directly to sander in place of flexible pad. No. 64425 4" Fine Wire Cup Brush, \$3.00 each. No. 64426, 4" Coarse Wire Cup Brush, \$3.00 each. 6" Wire Cup Brush, 20 and 25 gauge,



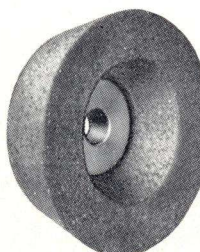
for use on U60 Portable Grinder and U67 Right Angle Grinder No. 59663, \$3.15.

### Grinding Wheels

The Grinding Wheels listed here have been selected for use with the machines listed below only after the most careful investigation and tests. They give the best results to be obtained for the applications on which they are put to work and assure users maximum grinding service.



USED ON	CATALOG NUMBER	DIAMETER	WIDTH	HOLE	GRADE	PRICE
6" Bench Grinder	64427	6"	1 1/2"	1/2"	60K	\$2.00
	64428	6"	1 1/2"	1/2"	36G	2.00
6" Bench Grinder	64429	6"	3/4"	1/2"	60K	2.50
	64430	6"	3/4"	1/2"	36G	2.50
7 Bench Grinder	64431	"	3/4"	1/2"	60K	3.00
	64432	"	3/4"	1/2"	36G	3.00
7" Bench Grinder	64433	"	1"	5/8"	60K	3.75
	64434	"	1"	5/8"	36G	3.75
6" Portable Grinder	64435	6"	1"	5/8"	General	3.00
4" Portable Grinder	60268	4"	3/4"	1/2"	General	.95
5" Portable Grinder	60199	5"	3/4"	1/2"	General	1.50



### Cup Grinding Wheel

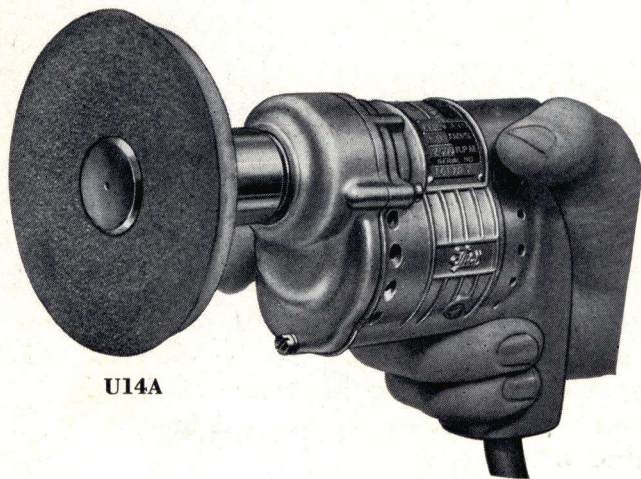
Extensively used where metal is removed in volume, for smoothing welded surfaces and automotive work. Leaves very light wheel marks, which sander can polish out. Attaches to U58 7" Sander in place of flexible pad. 4" Cup Wheel, Catalog Symbol No. 64424, size 4" x 2" x 5/8" rim x 3/4" back with 7/8" hole. Grain 36, Grade QR Rubber; \$2.50 each.

**"THOR OFFERS MORE"**





## ELECTRIC DRILL ACCESSORIES



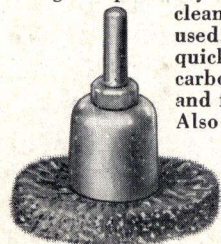
U14A

### for U14A Electric Drill Sander Attachment

This Sander Attachment is exceptionally suitable for use in connection with emery papers 4" in diameter. Notwithstanding its very small size, it has a remarkable capacity for sanding. This small size is particularly advantageous because it permits the operator to completely control its action and eliminates any jumping around of the wheel. Also it permits use in hard to get at places. Most effective sanding operation is achieved at 1200 to 1400 R.P.M. therefore the possibility of overloading the motor is eliminated, as the U14A under load operates at this speed. Also at this speed, heat transmitted is negligible. It can be used very effectively on both wood and light metal sanding applications. Abrasive discs can be furnished in fine, medium and coarse grades. With the Sander attached the U14A measures 7½" overall. Price of Sander Attachment and U14A Drill, \$36.50. Shipping weight, 4 lbs.

### Carbon Removing Brushes

Designed primarily for automobile cylinder head carbon



No. 64437 Side Flare Brush for close corner work, \$1.50 each.

cleaning, they are frequently used in iron work. They will quickly remove the hardest carbon deposit on cylinders and from any part of engine. Also used to remove burrs, paint, rust, etc. Tempered steel wire, ¼" shank. Can be used on any tool equipped with chuck.



No. 64438 Solid Wire, Cable Twist Brush, \$1.50 each.

### MARVEL HOLE SAWS

Marvel Hole Saws will cut large clean holes ¾" to 4½" diameter through steel, wood, cast iron, brass, copper, bakelite, slate, marble, etc., to a depth of 1¼", much deeper than any other type of hole saw. Auto body builders, aircraft manufacturers, garages, plumbers, steamfitters, boilermakers, electricians, millwrights, and engineers will find Marvel Hole Saws indispensable cost savers for cutting holes in floors, panels, walls, switch boxes, radiators, boilers, sinks, tubs, soil pipes, for pipe and conduit entrance holes, for drilling for pipe taps, etc.



#### HOLE SAWS ONLY—WITHOUT ARBORS

CATALOG NO.	SAW SIZE, DIAMETER INCHES	EACH	USE FOR		
			ARBOR NO.	PIPE TAP, PIPE SIZE	PIPE ENTRANCE, PIPE SIZE
12	¾	\$1.50	1		¾
14	7/8	1.50	1	¾	1½
16	1	1.50	1		
18	1 1/8	1.50	1	1	¾
20	1 1/4	1.50	2		
22	1 3/8	1.50	2		1
24	1 1/2	1.50	2	1 1/4	
26	1 5/8	1.50	2		
28	1 3/4	2.00	2	1 1/2	1 1/4
30	1 7/8	2.00	2		
32	2	2.00	2		1 1/2
33	2 1/16	2.65	2		
34	2 1/8	2.65	2		
36	2 1/4	2.65	2	2	
38	2 3/8	2.65	2		
40	2 1/2	2.65	2		2
42	2 5/8	2.65	2	2 1/2	
44	2 3/4	2.65	2		
46	2 7/8	2.65	2		
48	3	2.65	2		2 1/2
50	3 1/8	2.65	2		
52	3 1/4	2.65	2	3	
56	3 1/2	2.65	2		
58	3 5/8	2.65	2		3
64	4	4.50	2		
66	4 1/8	4.50	2		3 1/2

#### ARBORS ONLY

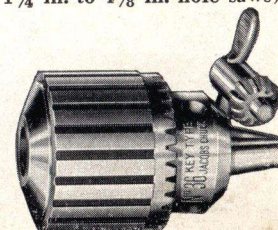
No. 1 Arbor, with hexagon shank to fit ½ in. Drills and high speed steel pilot drill (for ¾ in. to 1 1/8 in. hole saws) Each, \$1.50.

No. 2 Arbor, with hexagon shank to fit ½ in. Drills and high speed steel pilot drill (for 1 1/4 in. to 4 1/8 in. hole saws) Each, \$1.50.

No. 3 Arbor, with hexagon shank to fit ¾ in. Drills and high speed steel pilot drill (for 1 1/4 in. to 4 1/8 in. hole saws) Each, \$1.50.

### CHUCKS

Jacobs Chucks with Chuck Keys, for replacements are available for use on all Thor Electric Drills. Size and number of drill must be given when chucks are ordered.



"THOR OFFERS MORE"





## SERVICE . . . A THOR TRADITION

It is after a customer has purchased a tool that he really becomes involved in the tool and the company from whom he has made the purchase. Service becomes more than a word in his language. It becomes a necessity and the quality of this service has a definite bearing on the efficient operation of the tool.

Service has always meant as much to the makers of THOR tools as the quality of the tools they make, for without service in times of emergency, the owner of the tools would be severely handicapped.

Some idea of the scope of THOR service can be gathered from the fact that THOR maintains branches throughout the world where the great majority of repairs that might become necessary can be made. Further assistance can be given by THOR engineers living in most principal cities.

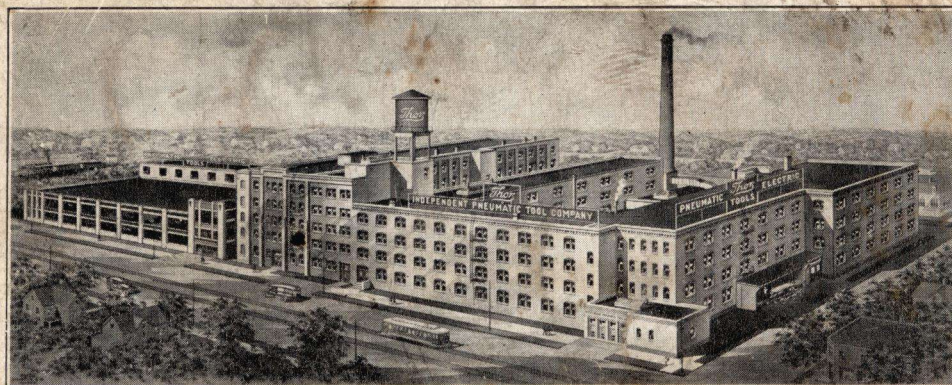
Periodic calls are made on every THOR user. Inspections and instruction in the method of operating the tools are part of the THOR service program which is based on the principle that the sale of the tool is not completed as long as it is in use.

When it becomes necessary to recondition a THOR tool, we suggest that our factory can best accomplish this necessity. In our plant we have a modern, spacious repair room where quick and thorough repairs can be made that will add to the service life of the tools.

The engineers in the THOR plant to whom is charged the responsibility for the repairing and reconditioning of THOR tools, know the complete specifications of the tool. They know the design, material and heat treatment of every THOR part and they know, too, why such specifications were adopted, because they are thoroughly familiar with the history of each part, its use and its operation in service.



# Thor



*Aurora Works*

TOOLMAKERS SINCE 1893



*Los Angeles Works*

## INDEPENDENT PNEUMATIC TOOL CO.

600 WEST JACKSON BOULEVARD • CHICAGO, ILLINOIS

**BIRMINGHAM, ALA.**  
915 N. 7th Ave.

**LOS ANGELES, CALIF.**  
6200 E. Slauson Ave.

**LONDON, ENGLAND**  
40 Broadway, S. W. 1

**BOSTON, MASS.**  
1119 Little Bldg.

**MILWAUKEE, WIS.**  
2637 W. Clybourn St.

**ST. LOUIS, MO.**  
408 Pine St.

**BUFFALO, N. Y.**  
521 Genesee Bldg.

**NEW YORK, N. Y.**  
330 West 42nd St.

**SALT LAKE CITY, UTAH**  
216 S. W. Temple St.

**CLEVELAND, OHIO**  
1740 E. 12th St.

**PHILADELPHIA, PA.**  
401 N. Broad St.

**SAN FRANCISCO, CAL.**  
315 S. Van Ness St.

**DETROIT, MICH.**  
416 Garfield Bldg.

**PITTSBURGH, PA.**  
803 Wabash Bldg.

**TORONTO, ONT.**  
32 Front St. West

Foreign Representatives in Buenos Aires . . . Vienna . . . Sydney . . . Liege . . . Rio de Janeiro . . . Porto Alegre, Brazil . . . Sao Paulo, Brazil . . . Winnipeg . . . Vancouver  
Shanghai . . . Prague . . . Copenhagen . . . Rotterdam . . . Paris . . . Athens, Greece . . . Honolulu . . . Milan, Italy . . . Calcutta . . . Port Elizabeth . . . Mexico City  
Wellington, New Zealand . . . Manila . . . San Juan . . . Beirut, Syria . . . Barcelona . . . Malmo, Sweden . . . Johannesburg . . . Oslo . . . Maracaibo, Venezuela . . . Port  
of Spain, Trinidad . . . Capetown . . . La Paz, Bolivia . . . Zurich, Switzerland.